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Refinements 

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SCIENTIFIC NAME OF SOURCE ORGANISM [Clear](#)

- Homo sapiens (66)
- Rattus norvegicus (4)
- Mus musculus (3)

TAXONOMY [Clear](#)

- Eukaryota (73)

EXPERIMENTAL METHOD [Clear](#)

- X-RAY DIFFRACTION (73)

POLYMER ENTITY TYPE [Clear](#)

- Protein (73)

REFINEMENT RESOLUTION (Å) [Clear](#)

- 1.5 - 2.0 (43)
- 2.0 - 2.5 (23)
- 2.5 - 3.0 (6)
- 3.0 - 3.5 (1)

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RELEASE DATE

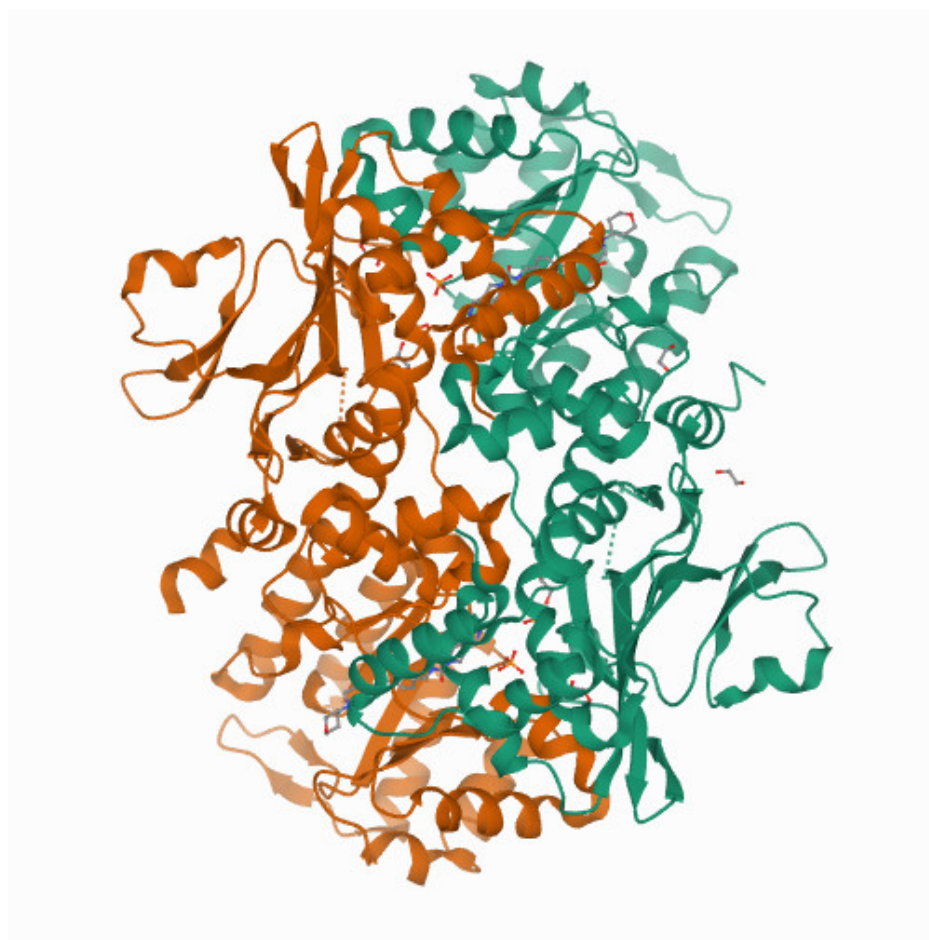
2005 - 2009 (17)  
 2010 - 2014 (36)  
 2015 - 2019 (17)  
 2020 - 2024 (3)

ENZYME CLASSIFICATION NAME

Transferases (73)

SYMMETRY TYPE

Cyclic (73)  
 Asymmetric (2)

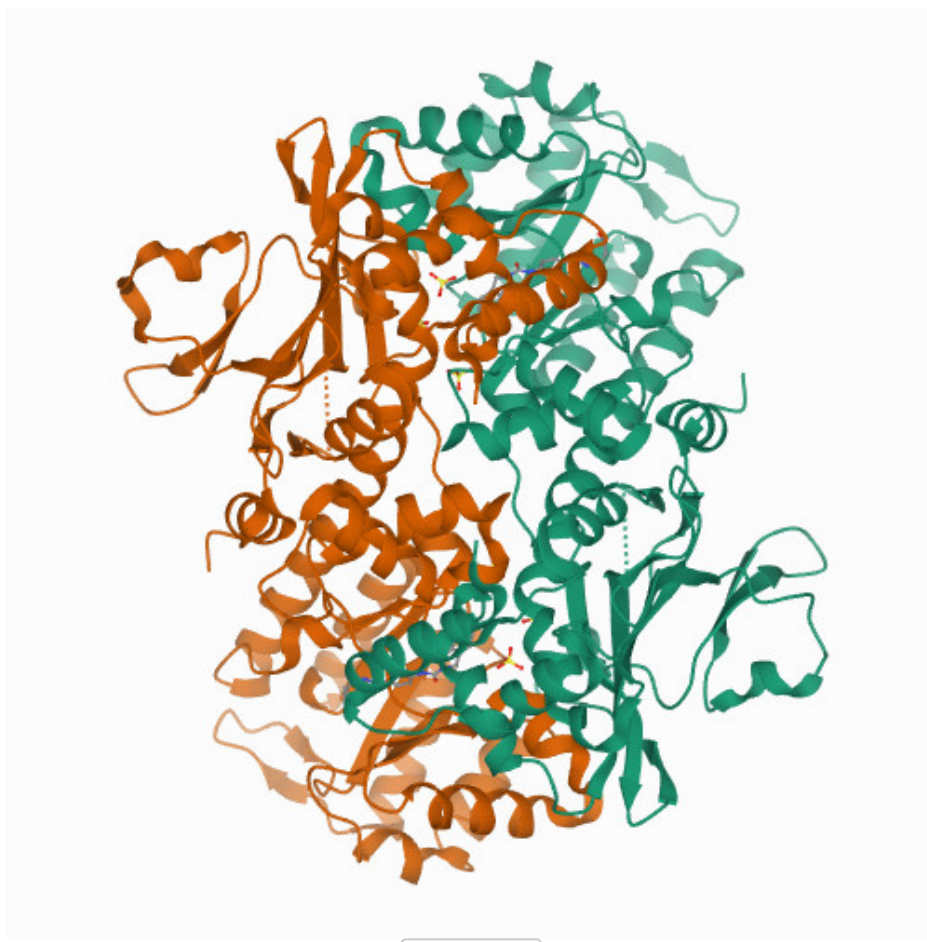
**4KFP** 

### Identification of 2,3-dihydro-1H-pyrrolo[3,4-c]pyridine-derived Ureas as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Dragovich, P.S., Bair, K.W., Baumeister, T., Ho, Y., Liederer, B.M., Liu, X., O'Brien, T., Oeh, J., Sampath, D., Skelton, N., Wang, L., Wang, W., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhang, L., Zheng, X.

(2013) *Bioorg Med Chem Lett* **23**: 4875-4885

<b>Released</b>	2013-08-14
<b>Method</b>	X-RAY DIFFRACTION 1.84 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	1R7, EDO, PO4




5U2M




Crystal structure of human NAMPT with A-1293201

Longenecker, K.L., Raich, D., Korepanova, A.V.

(2017) Mol Cancer Ther **16**: 1236-1245

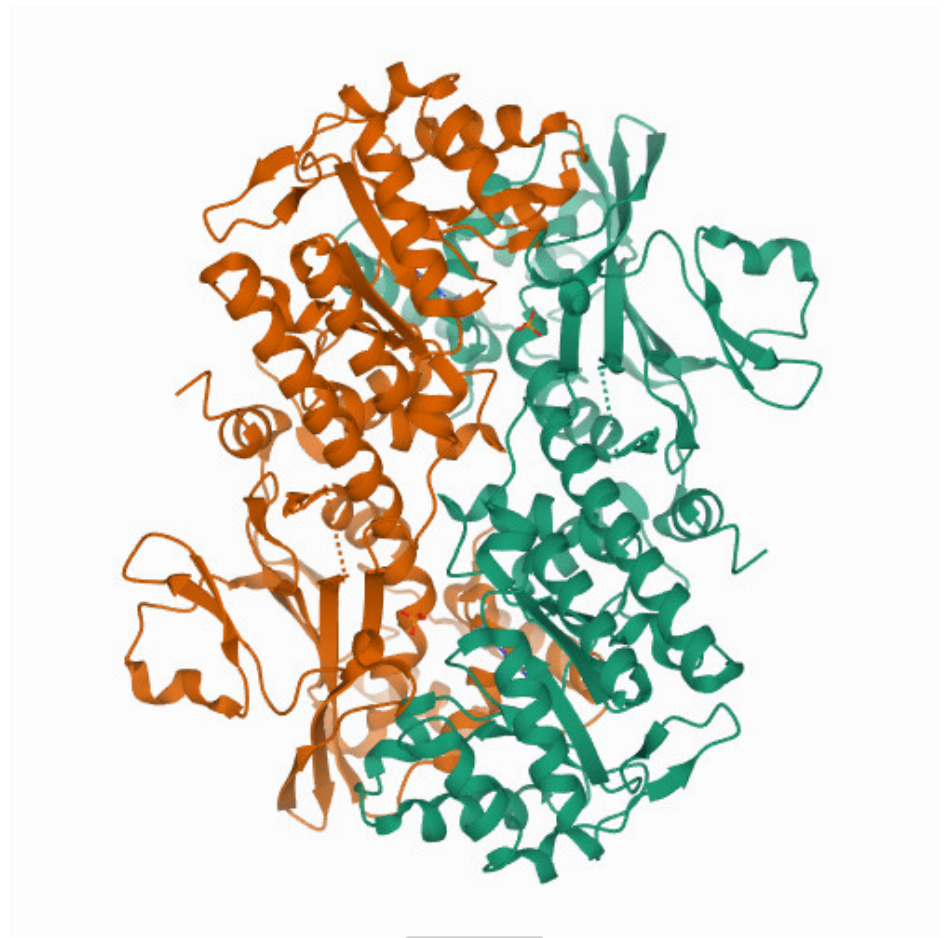
<b>Released</b>	2017-06-28
<b>Method</b>	X-RAY DIFFRACTION 1.89 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	7T7, SO4

[3D View](#)[Download File](#) [View File](#)**5U2N****Crystal structure of human NAMPT with A-1326133**

Longenecker, K.L., Raich, D., Korepanova, A.V.

(2017) Mol Cancer Ther **16**: 1236-1245

<b>Released</b>	2017-06-28
<b>Method</b>	X-RAY DIFFRACTION 1.73 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	7TA, SO4

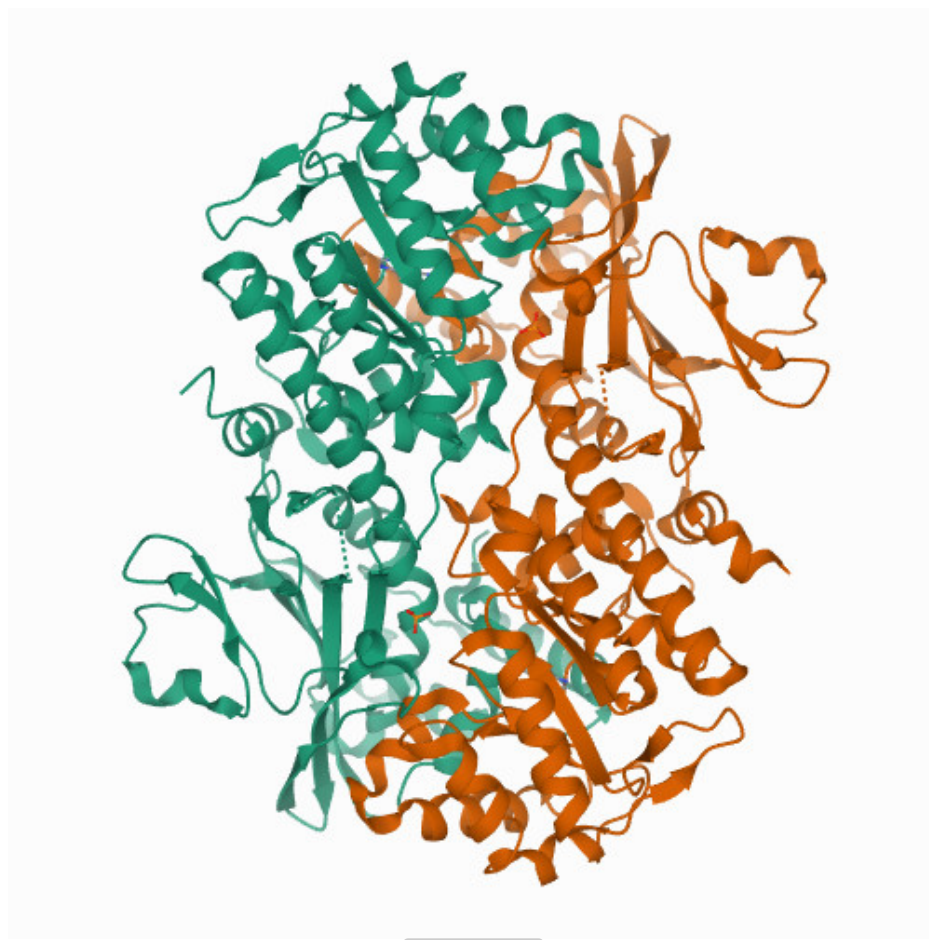
[3D View](#)**4N9B**[Download File](#)[View File](#)

Fragment-based Design of 3-Aminopyridine-derived Amides as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Dragovich, P.S., Zhao, G., Baumeister, T., Bravo, B., Giannetti, A.M., Ho, Y., Hua, R., Li, G., Liang, X., O'Brien, T., Skelton, N.J., Wang, C., Zhai, Q., Oh, A., Wang, W., Wang, Y., Xiao, Y., Yuen, P., Zak, M., Zheng, X.

(2014) *Bioorg Med Chem Lett* **24**: 954-962

<b>Released</b>	2014-02-19
<b>Method</b>	X-RAY DIFFRACTION 2.859 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	2HH, PO4


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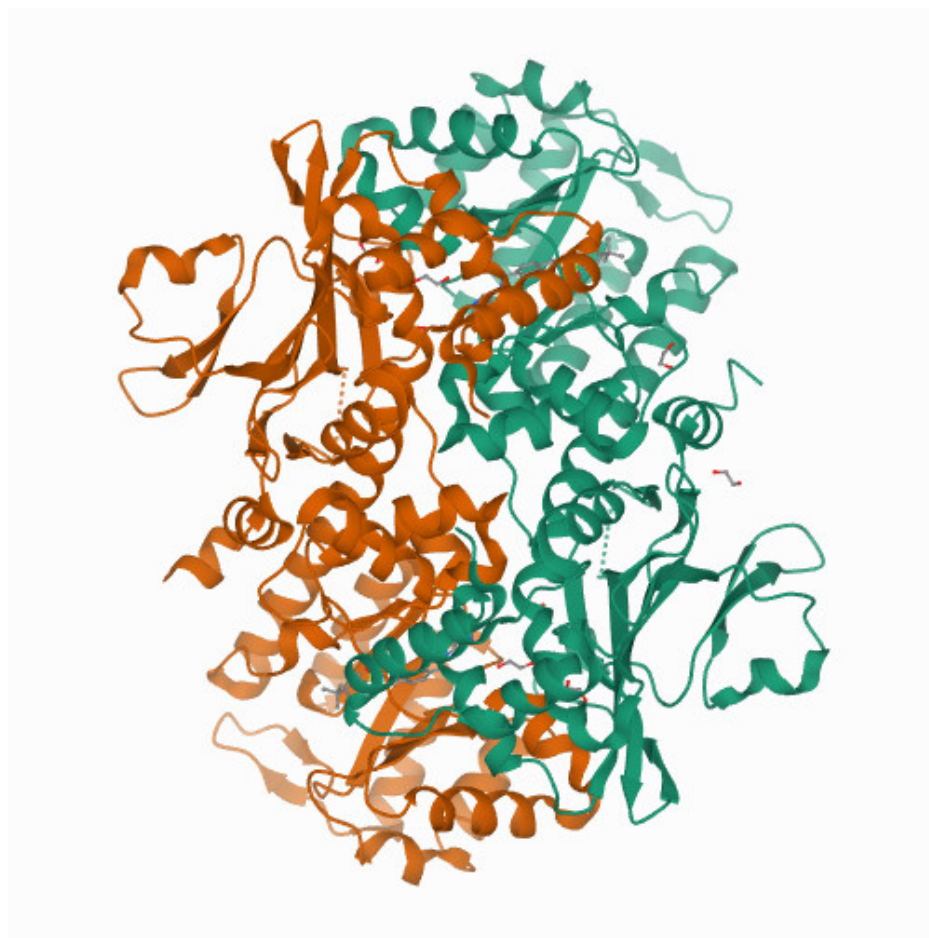

## 4N9C

### Fragment-based Design of 3-Aminopyridine-derived Amides as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Dragovich, P.S., Zhao, G., Baumeister, T., Bravo, B., Giannetti, A.M., Ho, Y., Hua, R., Li, G., Liang, X., O'Brien, T., Skelton, N.J., Wang, C., Zhao, Q., Oh, A., Wang, W., Wang, Y., Xiao, Y., Yuen, P., Zak, M., Zheng, X.

(2014) *Bioorg Med Chem Lett* **24**: 954-962

<b>Released</b>	2014-02-19
<b>Method</b>	X-RAY DIFFRACTION 1.751 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	2ZM, PO4


[3D View](#)

4N9D

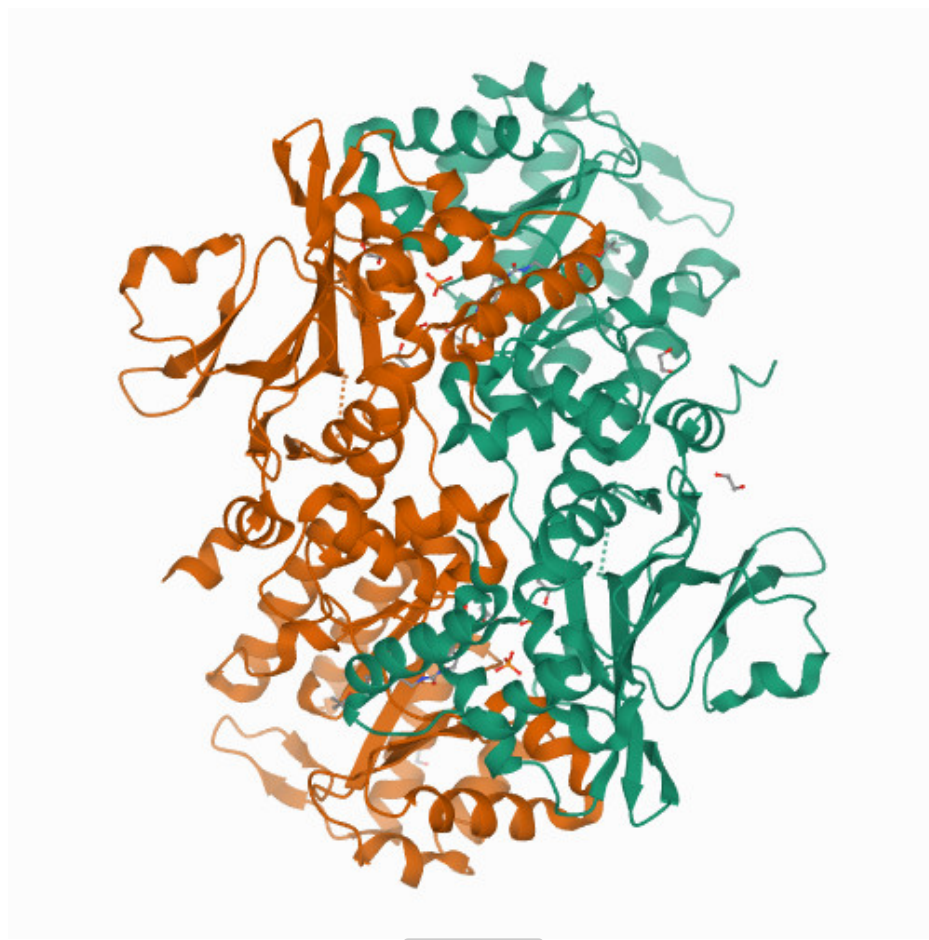
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### Fragment-based Design of 3-Aminopyridine-derived Amides as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Dragovich, P.S., Zhao, G., Baumeister, T., Bravo, B., Giannetti, A.M., Ho, Y., Hua, R., Li, G., Liang, X., O'Brien, T., Skelton, N.J., Wang, C., Zhao, Q., Oh, A., Wang, W., Wang, Y., Xiao, Y., Yuen, P., Zak, M., Zheng, X.

(2014) *Bioorg Med Chem Lett* **24**: 954-962

<b>Released</b>	2014-02-19
<b>Method</b>	X-RAY DIFFRACTION 1.701 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	2HJ, EDO, PO4

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## 5KIT

### Crystal Structure of Nicotinamide Phosphoribosyltransferase (Nampt) in Complex with Inhibitors 37

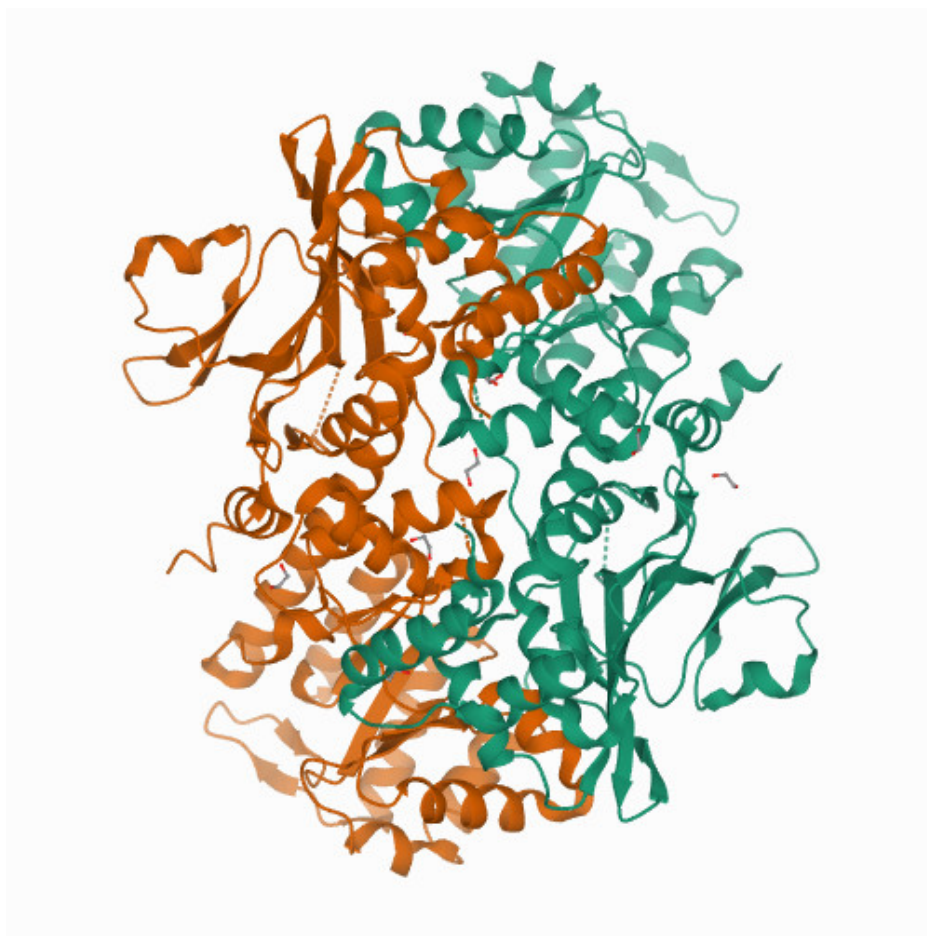
Li, D., Wang, W.

(2016) J Med Chem **59**: 8345-8368

<b>Released</b>	2016-08-31
<b>Method</b>	X-RAY DIFFRACTION 1.6 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	6TA, EDO, PO4





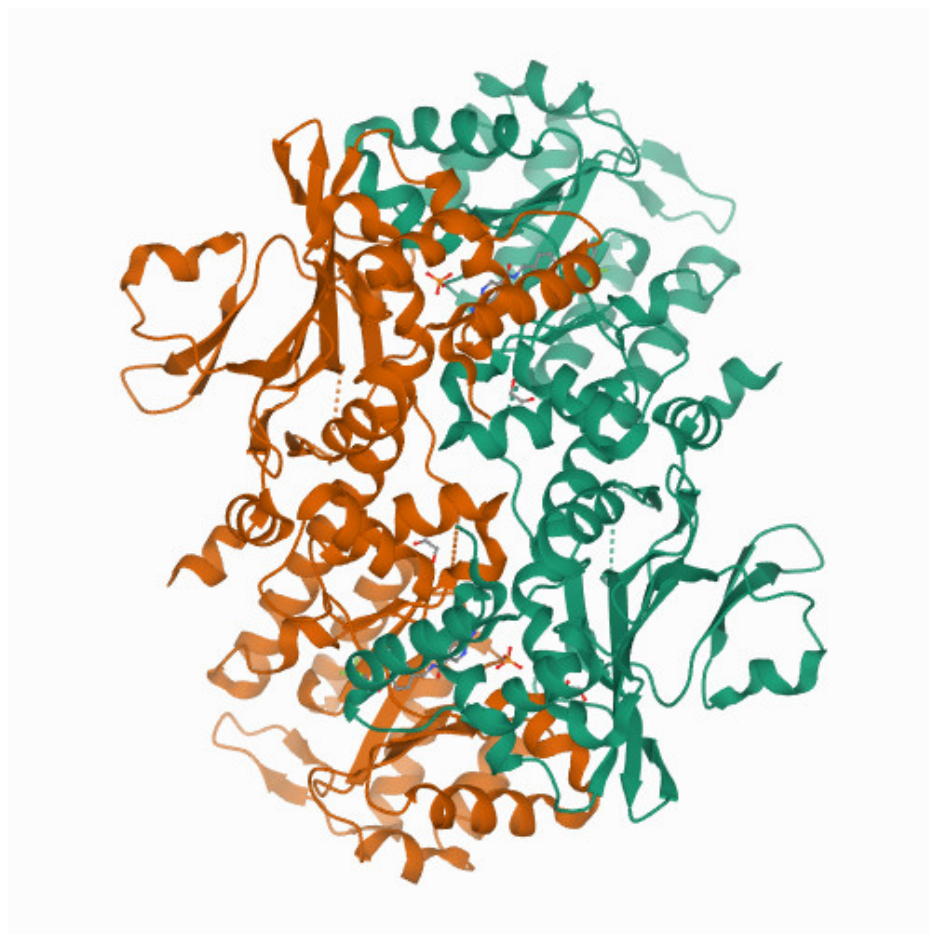
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### Structural Basis for Resistance to Diverse Classes of NAMPT Inhibitors

Oh, A., Coons, M., Brillantes, B., Wang, W.

(2014) PLoS One 9: e109366-e109366

<b>Released</b>	2014-10-22
<b>Method</b>	X-RAY DIFFRACTION 1.871 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	EDO, PO4

[3D View](#)

## 4O15

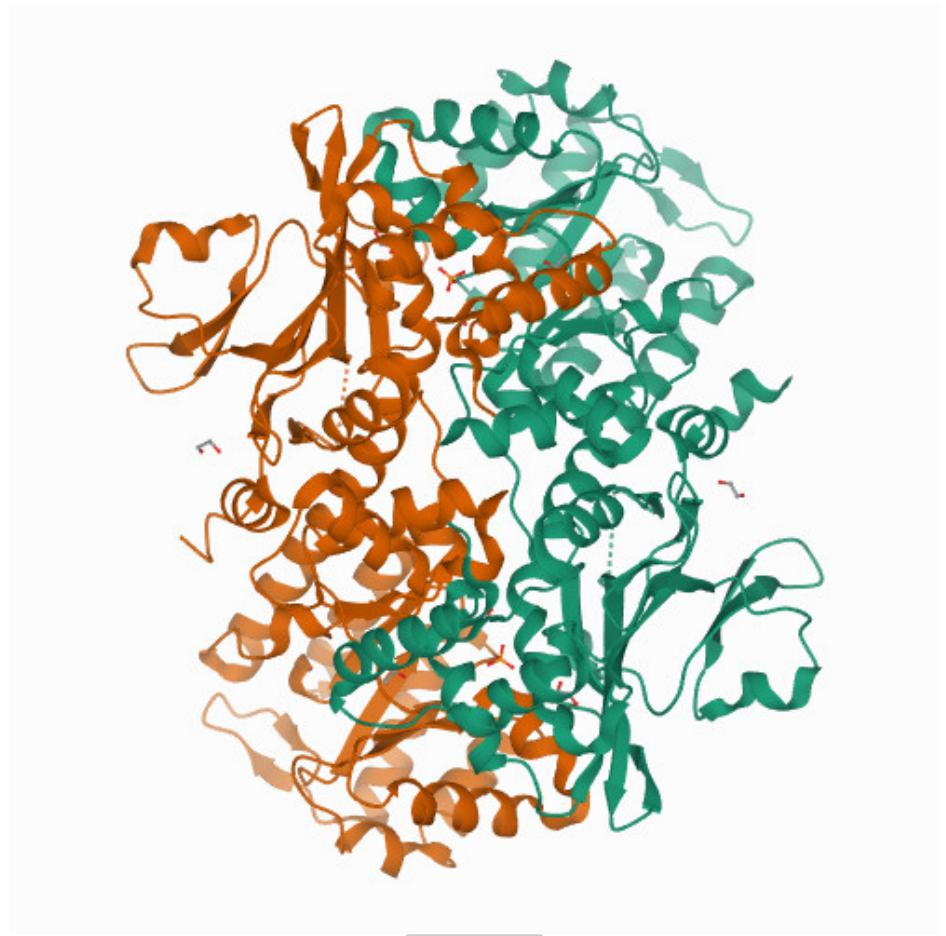
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The crystal structure of a mutant NAMPT (S165F) in complex with GNE-618

Oh, A., Coons, M., Brillantes, B., Wang, W.

(2014) PLoS One **9**: e109366-e109366

<b>Released</b>	2014-10-22
<b>Method</b>	X-RAY DIFFRACTION 1.8 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	2P1, EDO, PO4

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## 4O1A

The crystal structure of the mutant NAMPT G217R

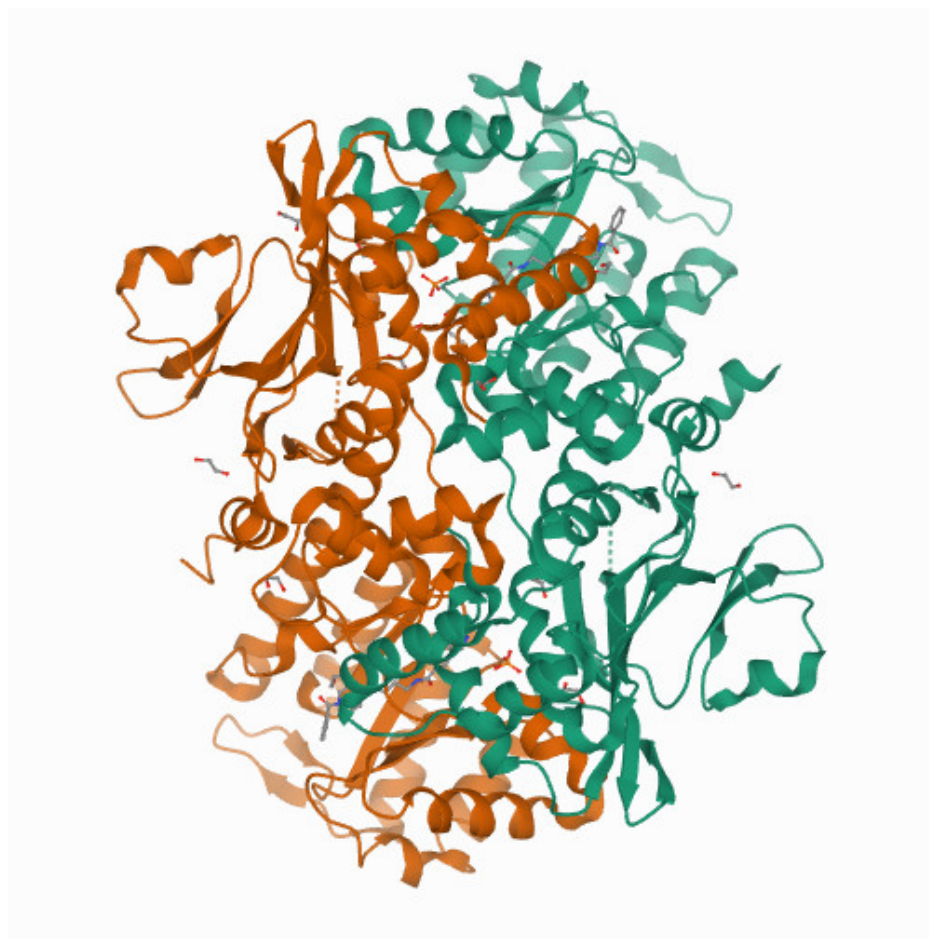
Oh, A., Coons, M., Brillantes, B., Wang, W.

(2014) PLoS One **9**: e109366-e109366

<b>Released</b>	2014-10-22
<b>Method</b>	X-RAY DIFFRACTION 1.87 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	EDO, PO4





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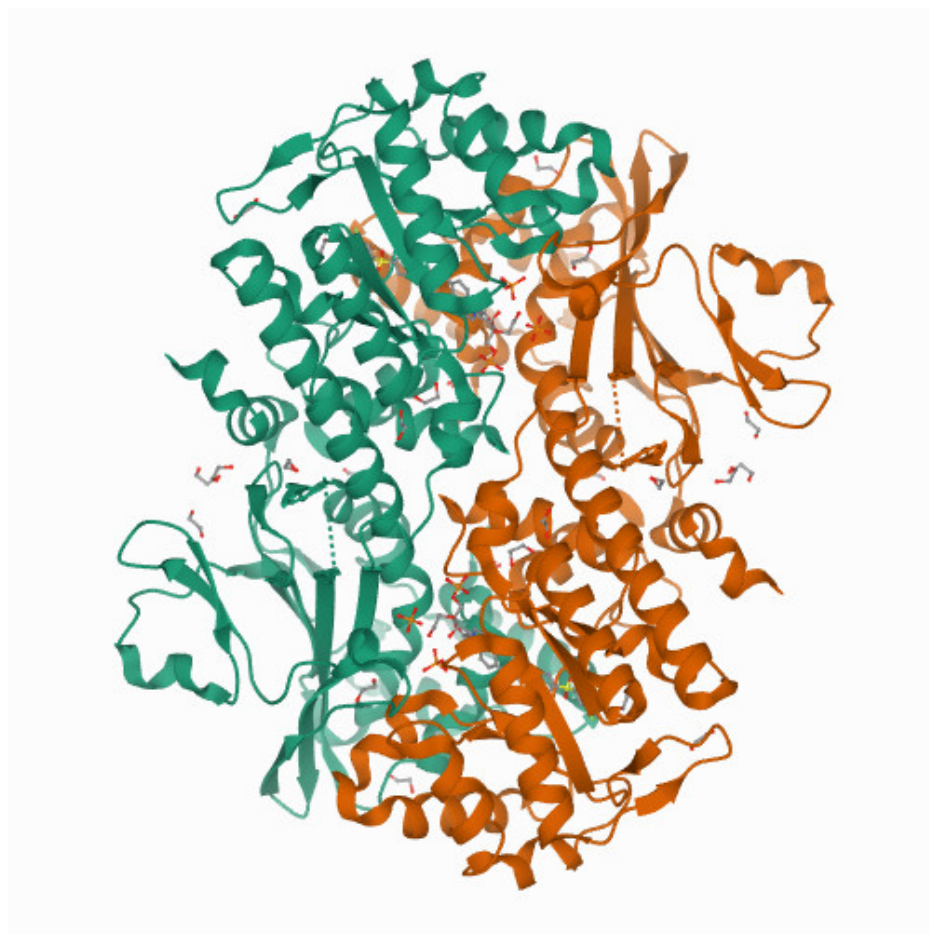
## 4O1D

### Structural Basis for Resistance to Diverse Classes of NAMPT Inhibitors

Oh, A., Coons, M., Brillantes, B., Wang, W.

(2014) PLoS One **9**: e109366-e109366

<b>Released</b>	2014-10-22
<b>Method</b>	X-RAY DIFFRACTION 1.705 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	DGB, EDO, PO4

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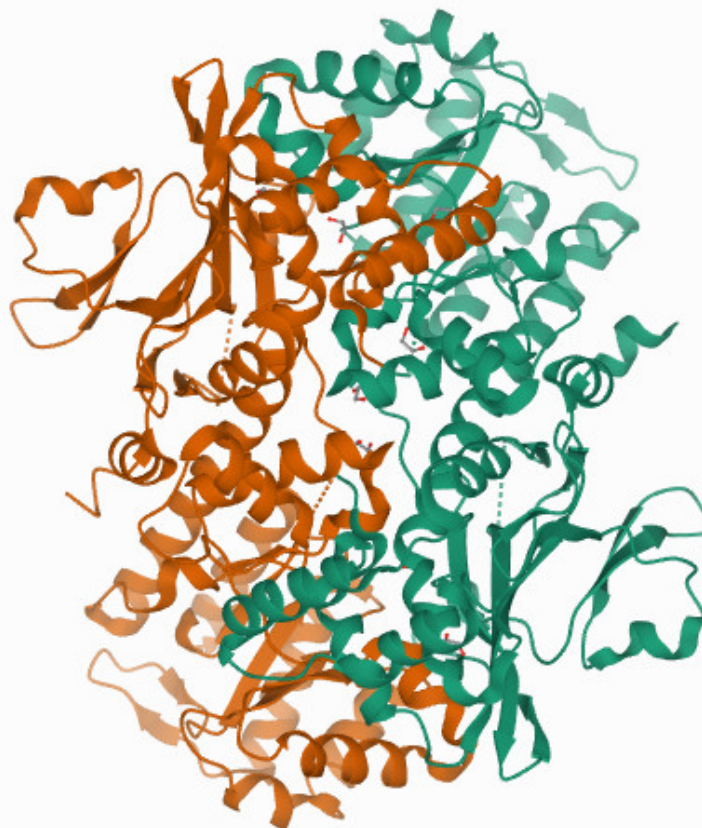
## Structural Basis for Resistance to Diverse Classes of NAMPT Inhibitors

Oh, A., Coons, M., Brillantes, B., Wang, W.

(2014) PLoS One **9**: e109366-e109366

<b>Released</b>	2014-10-22
<b>Method</b>	X-RAY DIFFRACTION 1.783 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	1XC, EDO, PO4



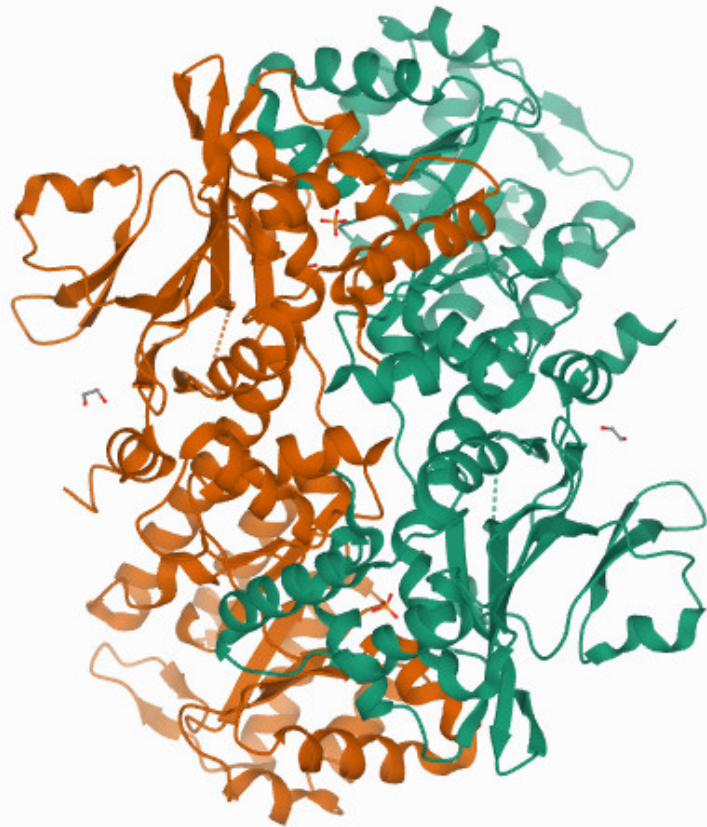
[3D View](#)[Download File](#) [View File](#)**4O17**

## Structural Basis for Resistance to Diverse Classes of NAMPT Inhibitors

Oh, A., Coons, M., Brillantes, B., Wang, W.

(2014) PLoS One **9**: e109366-e109366

<b>Released</b>	2014-10-22
<b>Method</b>	X-RAY DIFFRACTION 1.82 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	EDO, PO4

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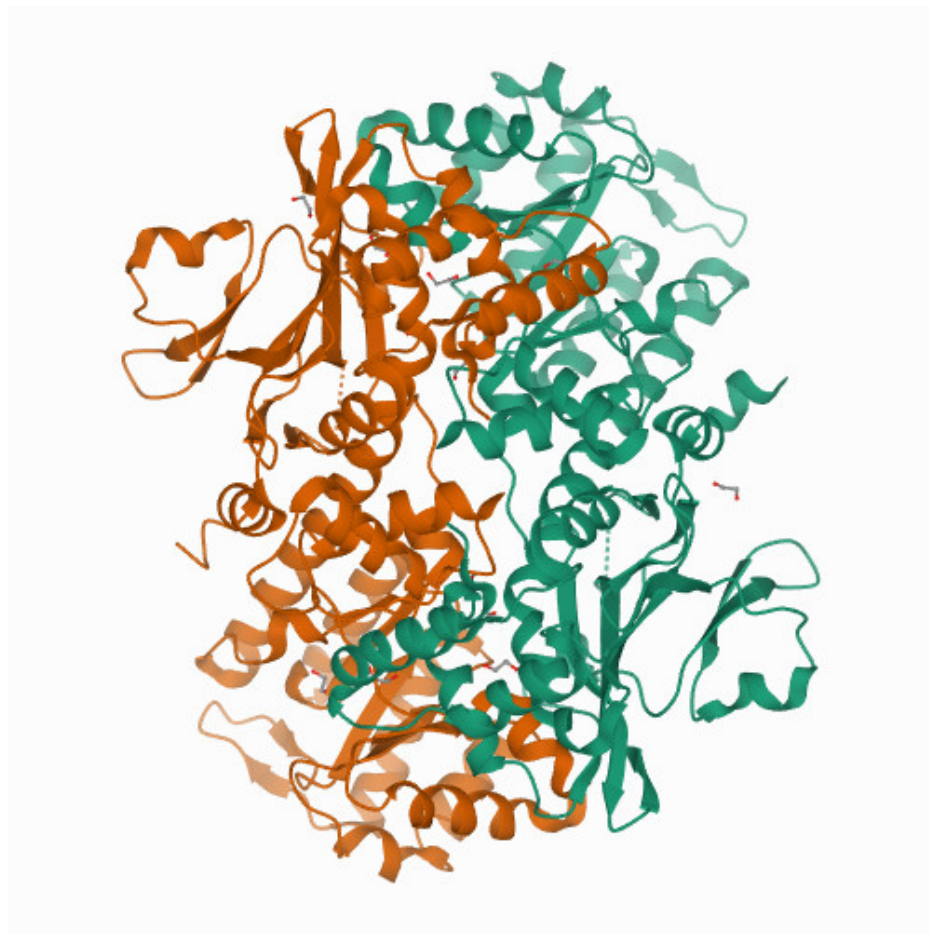
4O18

## Structural Basis for Resistance to Diverse Classes of NAMPT Inhibitors

Oh, A., Coons, M., Brillantes, B., Wang, W.

(2014) PLoS One **9**: e109366-e109366

<b>Released</b>	2014-10-22
<b>Method</b>	X-RAY DIFFRACTION 1.92 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	EDO, PO4

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## 4O19

### The crystal structure of a mutant NAMPT (G217V)

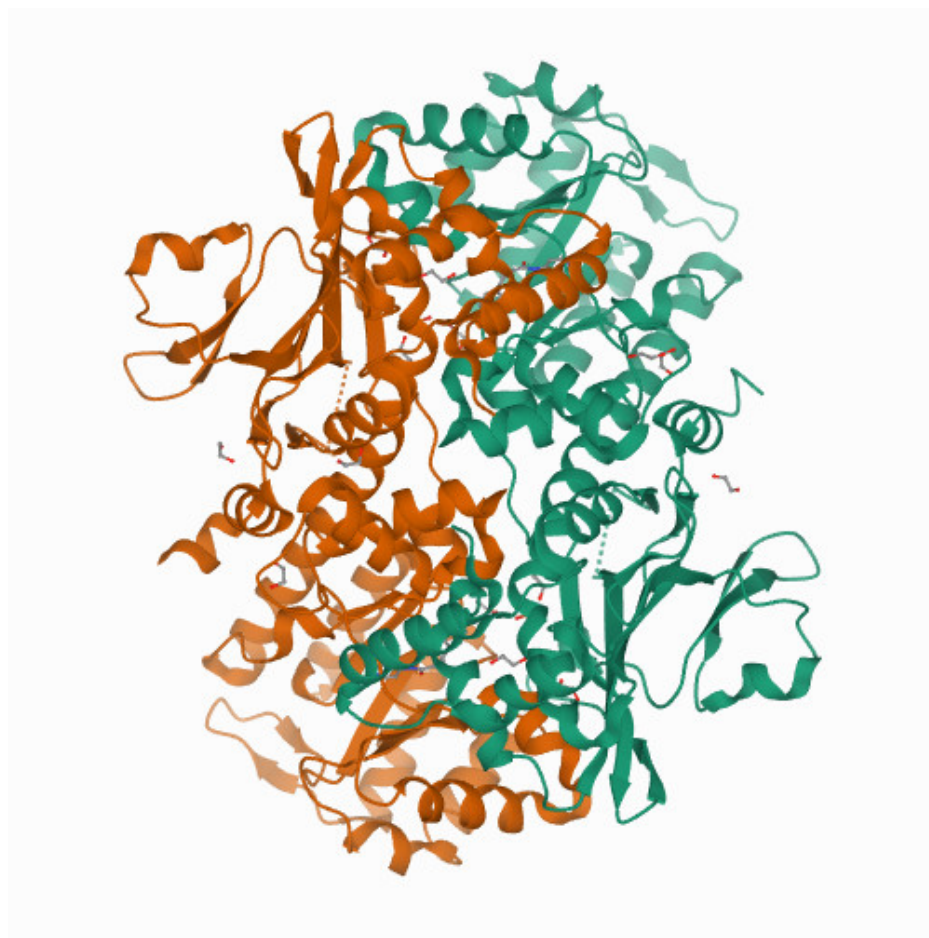
Oh, A., Coons, M., Brillantes, B., Wang, W.

(2014) PLoS One **9**: e109366-e109366

<b>Released</b>	2014-10-22
<b>Method</b>	X-RAY DIFFRACTION 1.75 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	EDO, PO4






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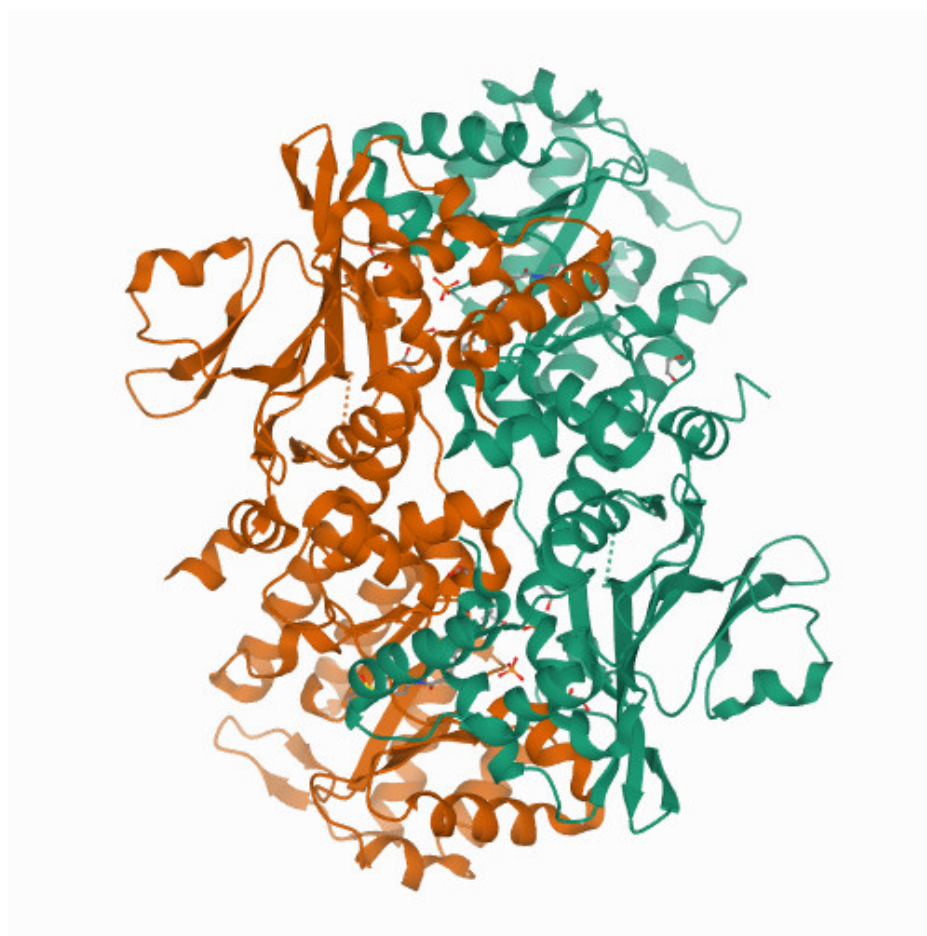
## 4LVF

### Fragment-based Identification of Amides Derived From trans-2-(Pyridin-3-yl)cyclopropanecarboxylic Acid as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Giannetti, A.M., Zheng, X., Skelton, N., Wang, W., Bravo, B., Feng, Y., Gunzner-Toste, J., Ho, Y., Hua, R., Wang, C., Zhao, Q., Liederer, B.M., Liu, Y., O'Brien, T., Oeh, J., Sampath, D., Shen, Y., Wang, L., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhao, G., Dragovich, P.S.

(2013) *Bioorg Med Chem Lett* **23**: 5488-5497

<b>Released</b>	2013-09-25
<b>Method</b>	X-RAY DIFFRACTION 1.5 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	20P, EDO, PO4

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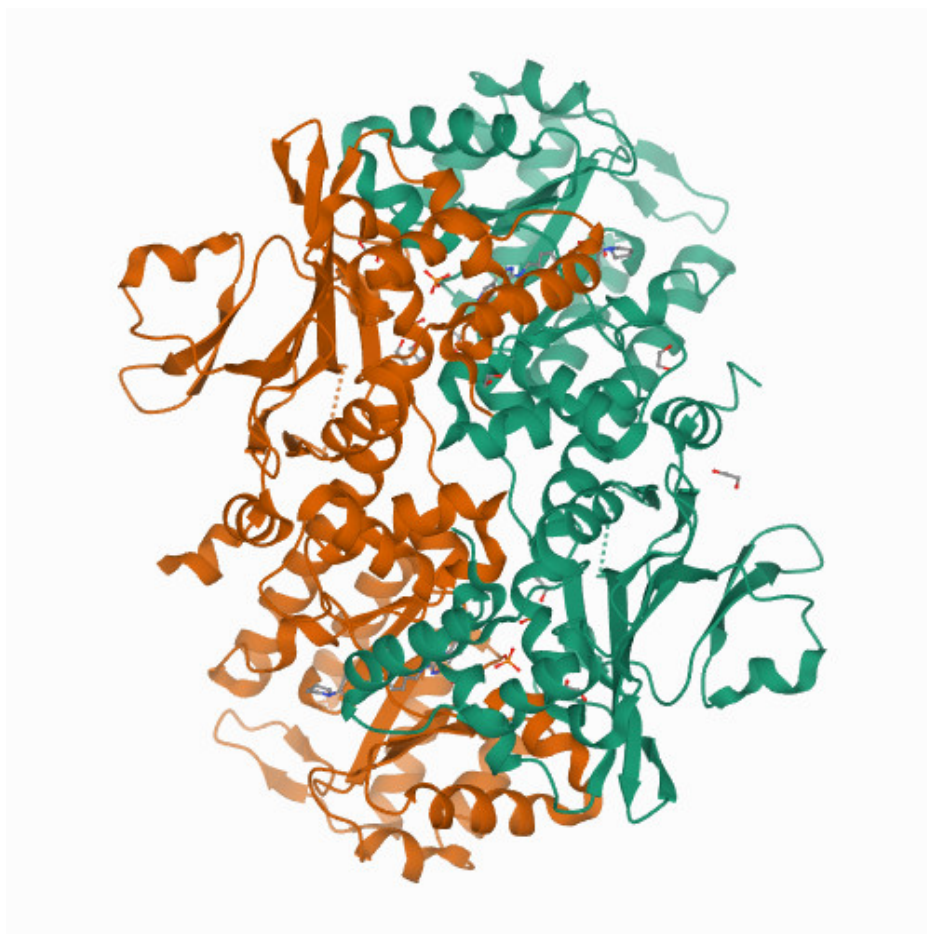
## 4LVG

### Fragment-based Identification of Amides Derived From trans-2-(Pyridin-3-yl)cyclopropanecarboxylic Acid as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Giannetti, A.M., Zheng, X., Skelton, N., Wang, W., Bravo, B., Feng, Y., Gunzner-Toste, J., Ho, Y., Hua, R., Wang, C., Zhao, Q., Liederer, B.M., Liu, Y., O'Brien, T., Oeh, J., Sampath, D., Shen, Y., Wang, L., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhao, G., Dragovich, P.S.

(2013) *Bioorg Med Chem Lett* **23**: 5488-5497

<b>Released</b>	2013-09-25
<b>Method</b>	X-RAY DIFFRACTION 1.702 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	20O, EDO, PO4


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## 4LVA

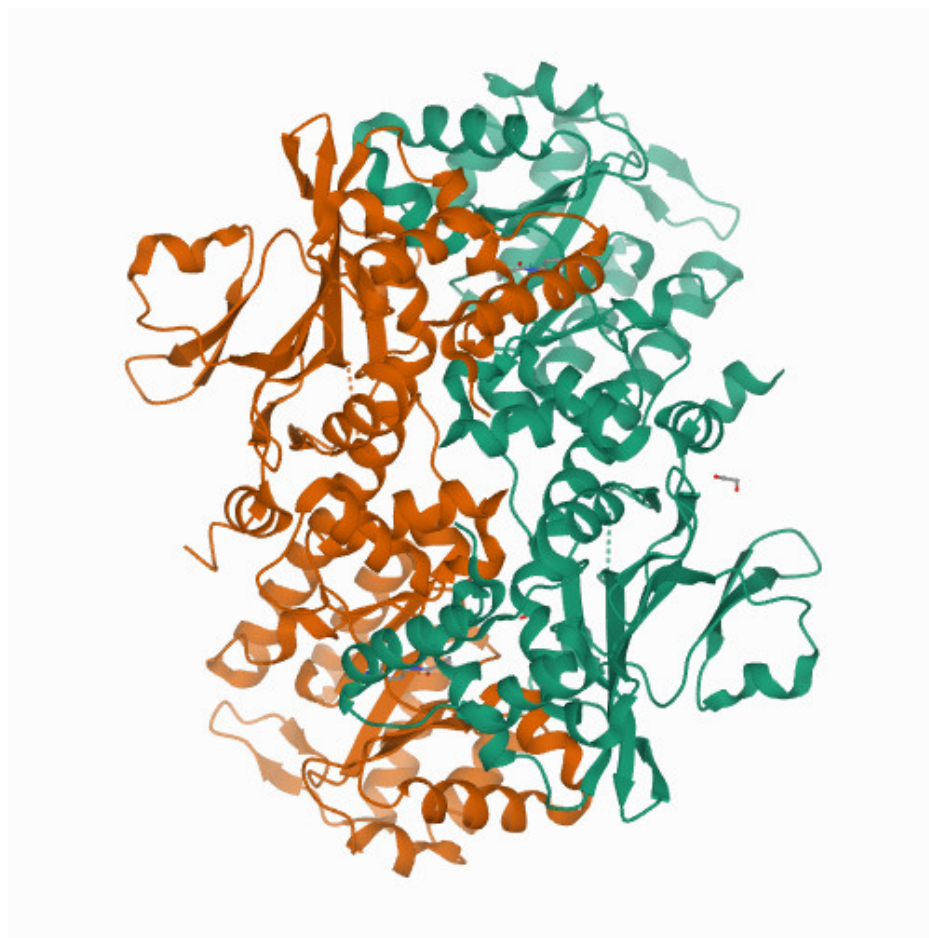
Fragment-based Identification of Amides Derived From trans-2-(Pyridin-3-yl)cyclopropanecarboxylic Acid as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Giannetti, A.M., Zheng, X., Skelton, N., Wang, W., Bravo, B., Feng, Y., Gunzner-Toste, J., Ho, Y., Hua, R., Wang, C., Zhao, Q., Liederer, B.M., Liu, Y., O'Brien, T., Oeh, J., Sampath, D., Shen, Y., Wang, L., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhao, G., Dragovich, P.S.

(2013) Bioorg Med Chem Lett **23**: 5488-5497

<b>Released</b>	2013-09-25
<b>Method</b>	X-RAY DIFFRACTION 1.55 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	20M, EDO, PO4



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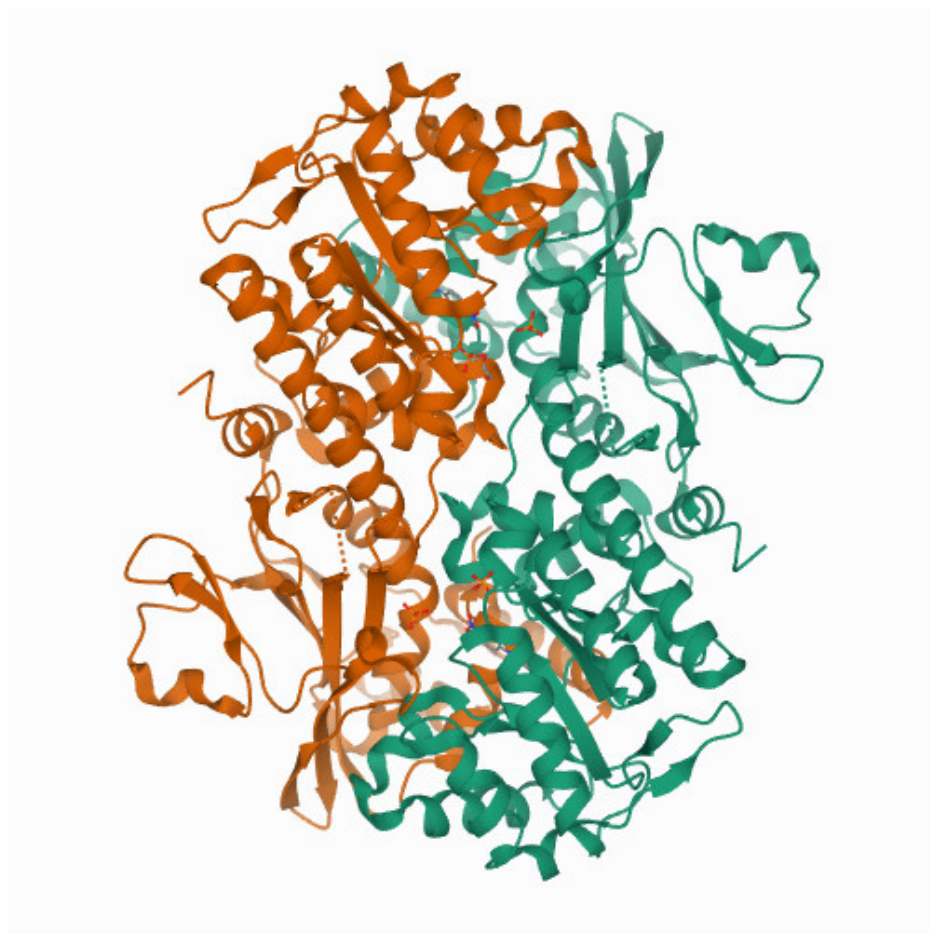
## 4LVB

### Fragment-based Identification of Amides Derived From trans-2-(Pyridin-3-yl)cyclopropanecarboxylic Acid as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Giannetti, A.M., Zheng, X., Skelton, N., Wang, W., Bravo, B., Feng, Y., Gunzner-Toste, J., Ho, Y., Hua, R., Wang, C., Zhao, Q., Liederer, B.M., Liu, Y., O'Brien, T., Oeh, J., Sampath, D., Shen, Y., Wang, L., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhao, G., Dragovich, P.S.

(2013) *Bioorg Med Chem Lett* **23**: 5488-5497

<b>Released</b>	2013-09-25
<b>Method</b>	X-RAY DIFFRACTION 1.836 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	20N, EDO, PO4

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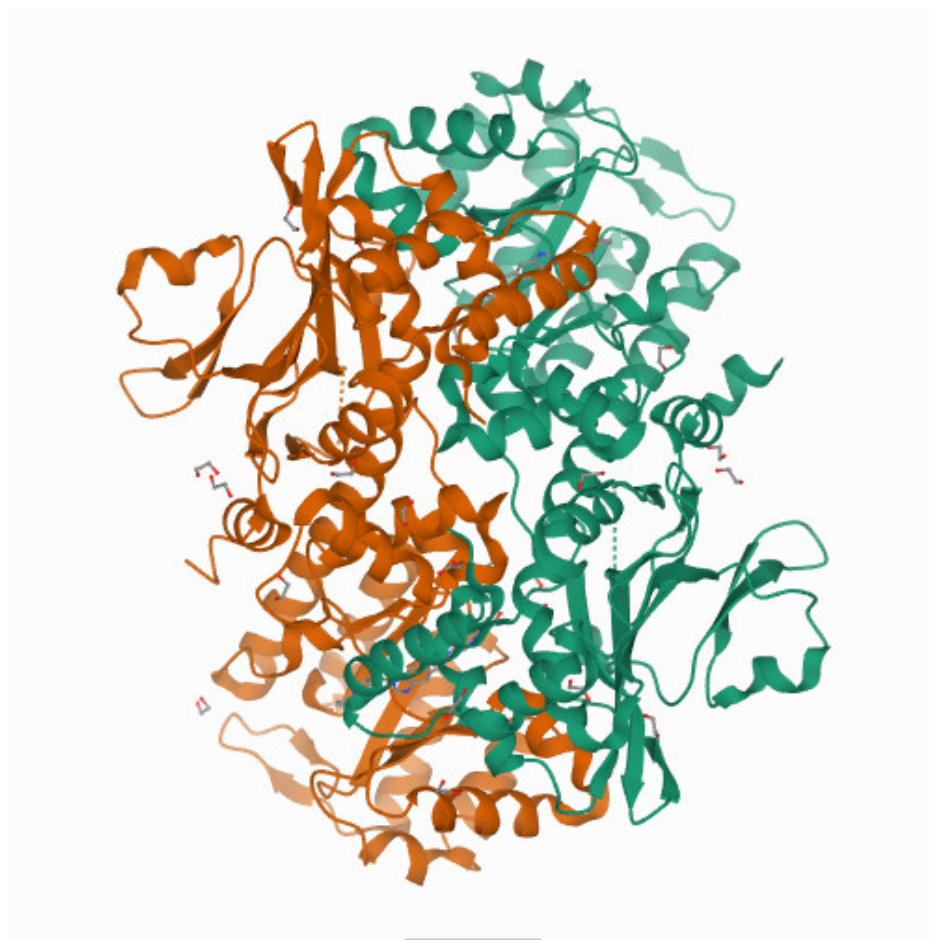
## 4LVD

### Fragment-based Identification of Amides Derived From trans-2-(Pyridin-3-yl)cyclopropanecarboxylic Acid as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Giannetti, A.M., Zheng, X., Skelton, N., Wang, W., Bravo, B., Feng, Y., Gunzner-Toste, J., Ho, Y., Hua, R., Wang, C., Zhao, Q., Liederer, B.M., Liu, Y., O'Brien, T., Oeh, J., Sampath, D., Shen, Y., Wang, L., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhao, G., Dragovich, P.S.

(2013) *Bioorg Med Chem Lett* **23**: 5488-5497

<b>Released</b>	2013-09-25
<b>Method</b>	X-RAY DIFFRACTION 1.75 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	1EB, EDO, PO4

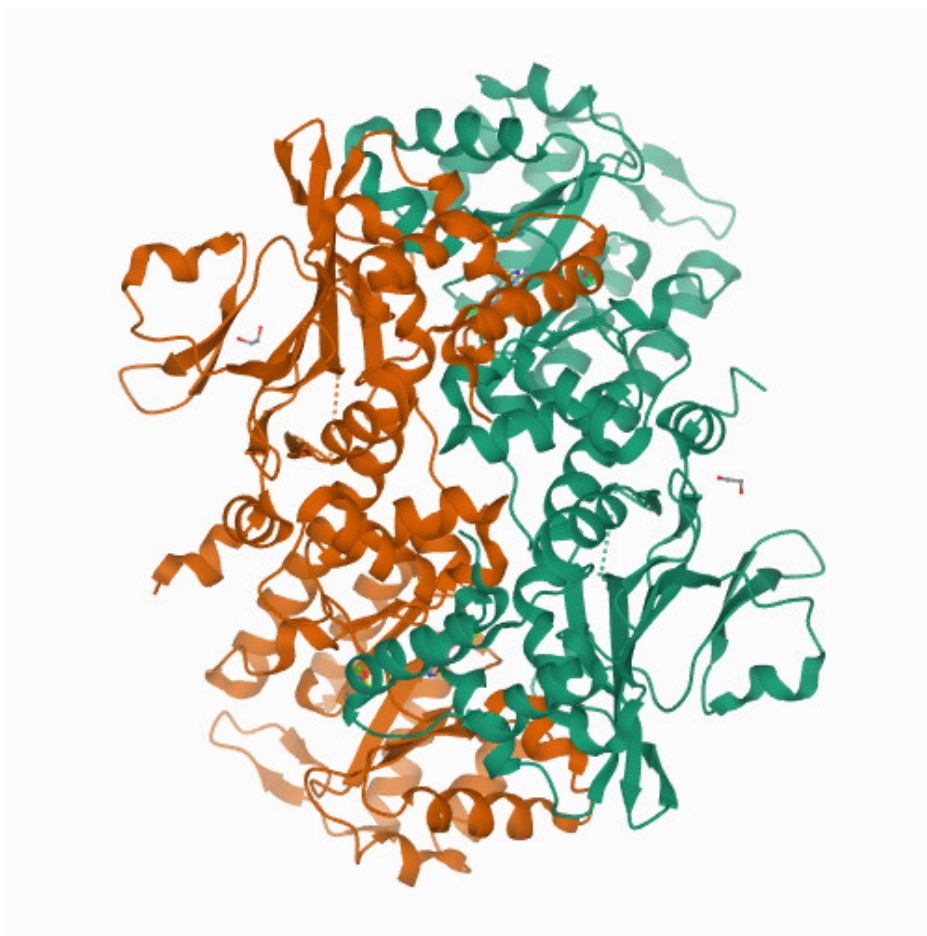
[3D View](#)[Download File](#) [View File](#) **4N9E**

### Fragment-based Design of 3-Aminopyridine-derived Amides as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Dragovich, P.S., Zhao, G., Baumeister, T., Bravo, B., Giannetti, A.M., Ho, Y., Hua, R., Li, G., Liang, X., O'Brien, T., Skelton, N.J., Wang, C., Zhao, Q., Oh, A., Wang, W., Wang, Y., Xiao, Y., Yuen, P., Zak, M., Zheng, X.

(2014) *Bioorg Med Chem Lett* **24**: 954-962

<b>Released</b>	2014-02-19
<b>Method</b>	X-RAY DIFFRACTION 1.72 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	2HL, DTT, EDO, PO4

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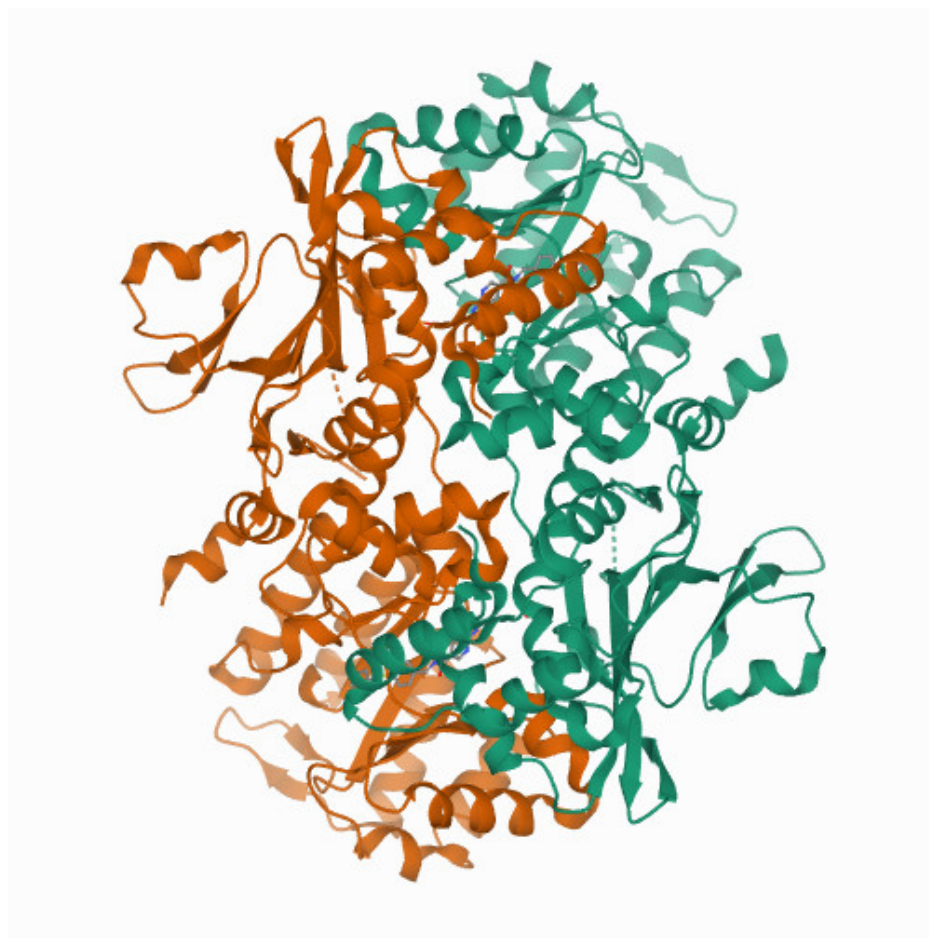
## 4LV9

### Fragment-based Identification of Amides Derived From trans-2-(Pyridin-3-yl)cyclopropanecarboxylic Acid as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Giannetti, A.M., Zheng, X., Skelton, N., Wang, W., Bravo, B., Feng, Y., Gunzner-Toste, J., Ho, Y., Hua, R., Wang, C., Zhao, Q., Liederer, B.M., Liu, Y., O'Brien, T., Oeh, J., Sampath, D., Shen, Y., Wang, L., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhao, G., Dragovich, P.S.

(2013) *Bioorg Med Chem Lett* **23**: 5488-5497

<b>Released</b>	2013-09-25
<b>Method</b>	X-RAY DIFFRACTION 1.807 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	20J, EDO, PO4

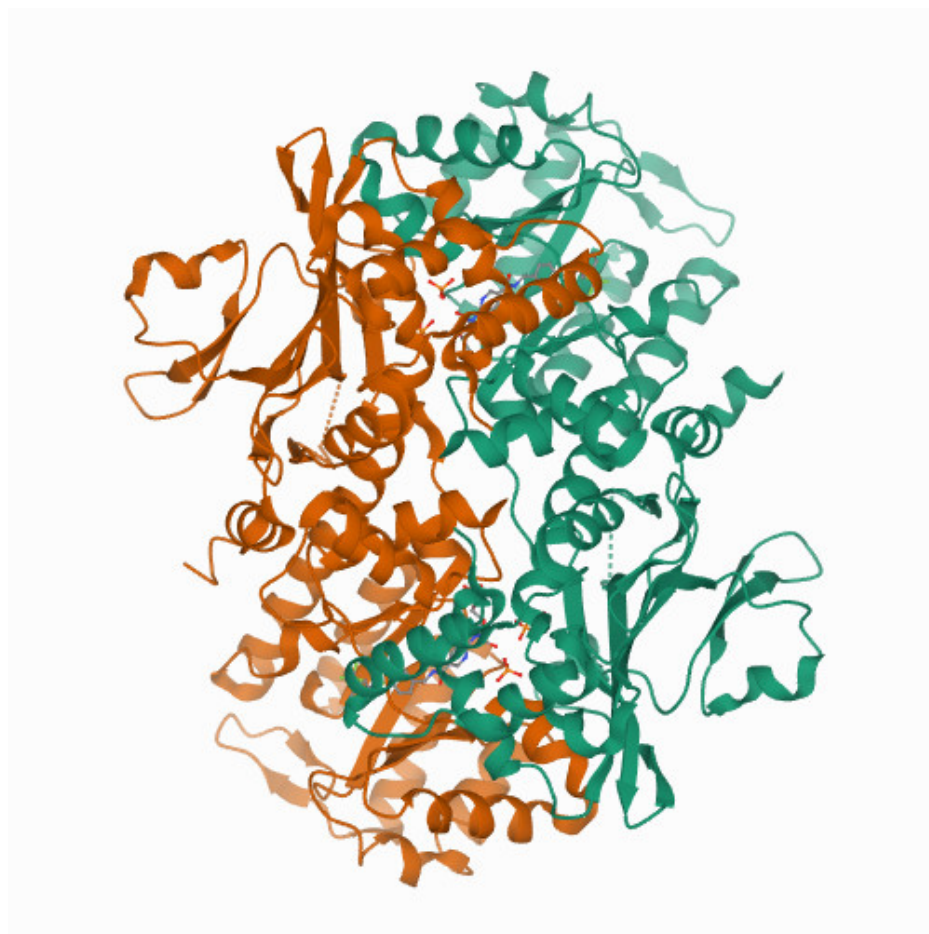
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### Identification of Amides Derived From 1H-Pyrazolo[3,4-b]pyridine-5-carboxylic Acid as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Giannetti, A.M., Zheng, X., Skelton, N., Wang, W., Bravo, B., Feng, Y., Gunzner-Toste, J., Ho, Y., Hua, R., Wang, C., Zhao, Q., Liederer, B.M., Liu, Y., O'Brien, T., Oeh, J., Sampath, D., Shen, Y., Wang, L., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhao, G., Dragovich, P.S.

(2013) *Bioorg Med Chem Lett* **23**: 5488-5497

<b>Released</b>	2013-09-25
<b>Method</b>	X-RAY DIFFRACTION 1.75 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	20R, PO4

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4M6Q

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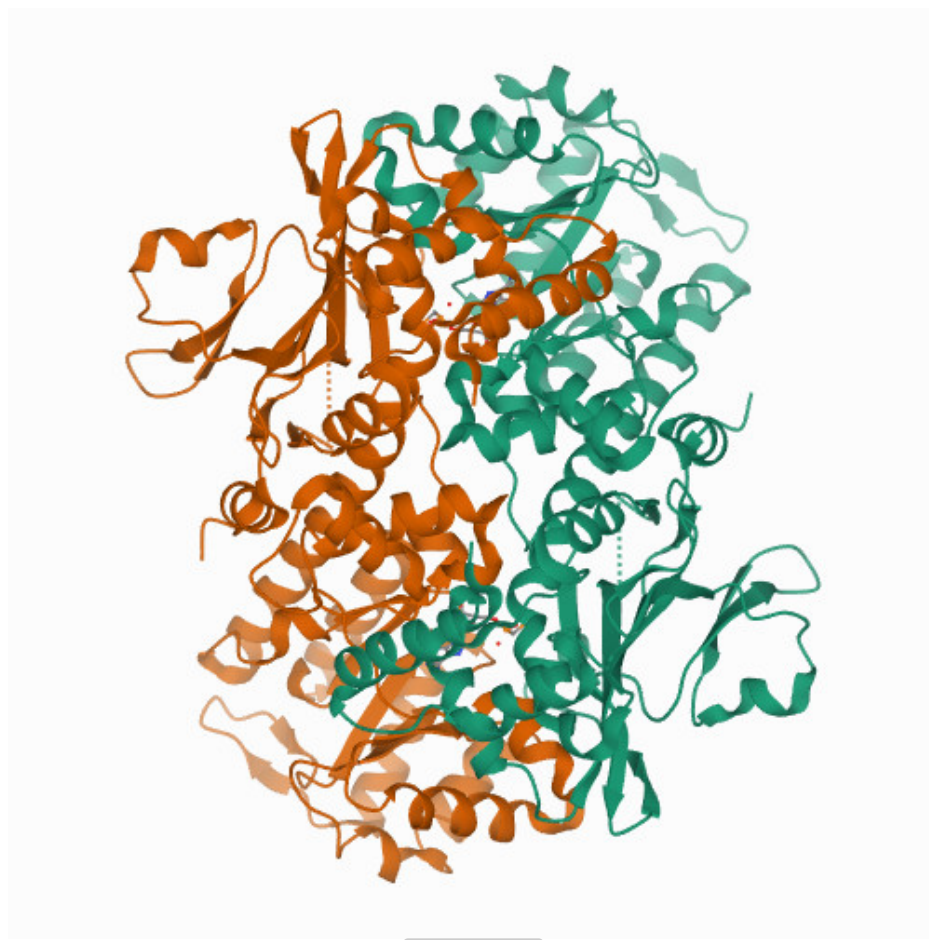
### Identification of Amides Derived From 1H-Pyrazolo[3,4-b]pyridine-5-carboxylic Acid as Potent Inhibitors of Human Nicotinamide Phosphoribosyltransferase (NAMPT)

Giannetti, A.M., Zheng, X., Skelton, N., Wang, W., Bravo, B., Feng, Y., Gunzner-Toste, J., Ho, Y., Hua, R., Wang, C., Zhao, Q., Liederer, B.M., Liu, Y., O'Brien, T., Oeh, J., Sampath, D., Shen, Y., Wang, L., Wu, H., Xiao, Y., Yuen, P., Zak, M., Zhao, G., Dragovich, P.S.

(2013) *Bioorg Med Chem Lett* **23**: 5488-5497

<b>Released</b>	2013-09-25
<b>Method</b>	X-RAY DIFFRACTION 2.406 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	20T, PO4, POP



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## 3DGR

### Crystal structure of human NAMPT complexed with ADP analogue

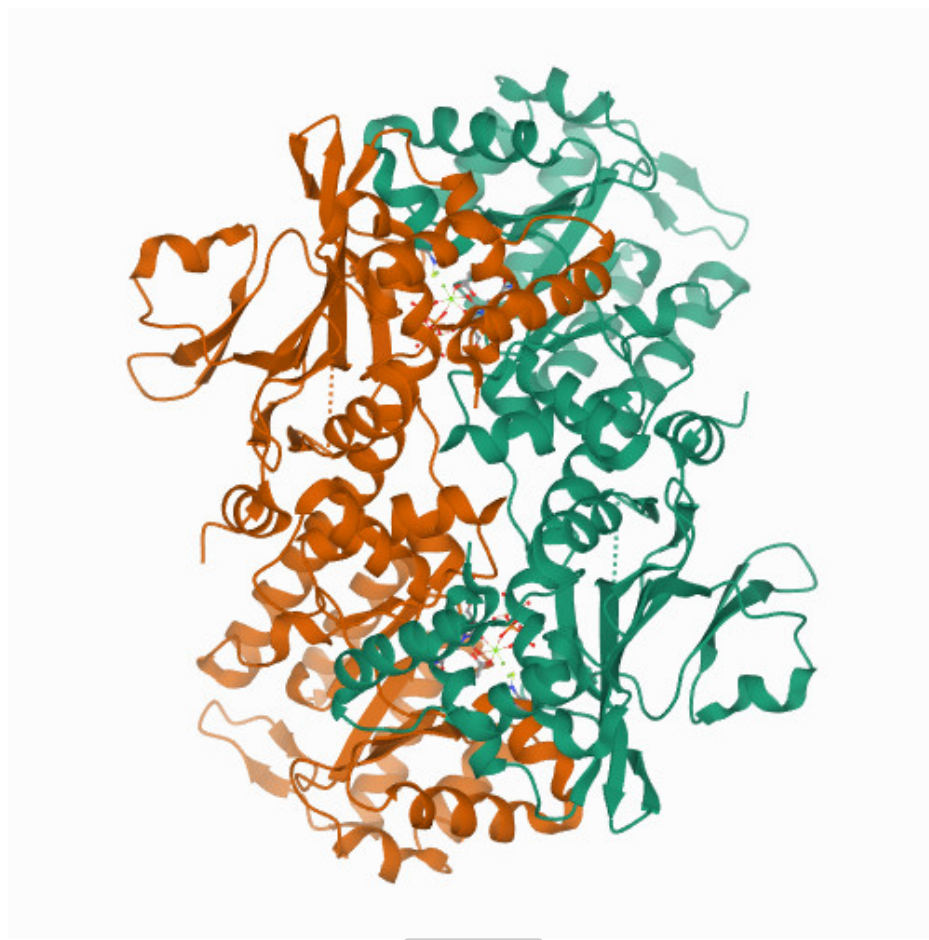
Ho, M., Burgos, E.S., Almo, S.C., Schramm, V.L.

(2009) Proc Natl Acad Sci U S A **106**: 13748-13753

<b>Released</b>	2009-08-18
<b>Method</b>	X-RAY DIFFRACTION 2.1 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	A12






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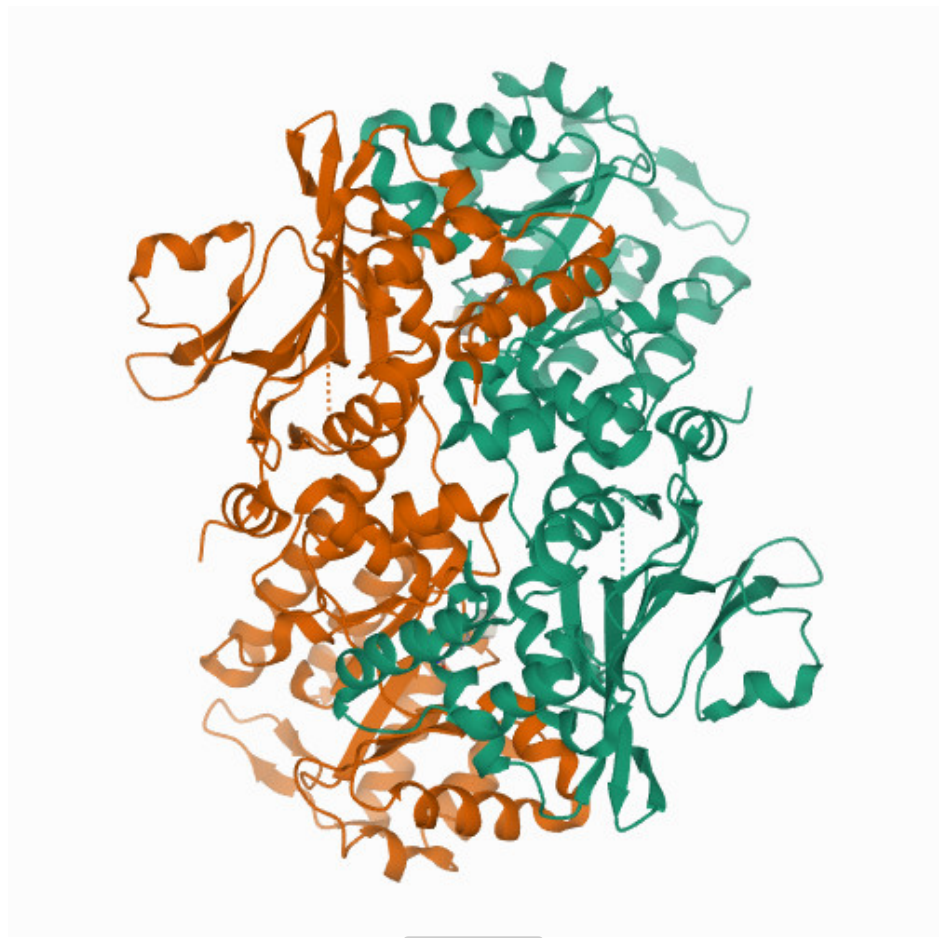

## 3DHF

Crystal structure of phosphorylated mimic form of human NAMPT complexed with nicotinamide mononucleotide and pyrophosphate

Ho, M., Burgos, E.S., Almo, S.C., Schramm, V.L.

(2009) Proc Natl Acad Sci U S A **106**: 13748-13753

<b>Released</b>	2009-08-18
<b>Method</b>	X-RAY DIFFRACTION 1.8 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	BEF, MG, NMN, POP

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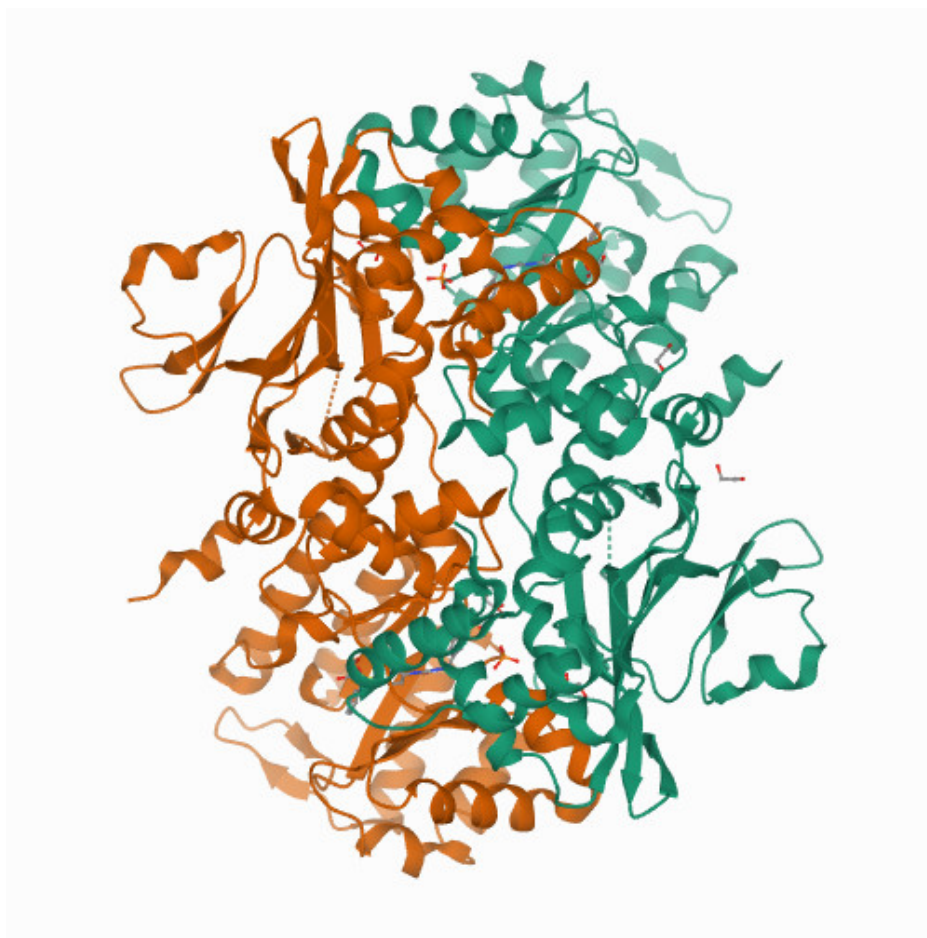
## 3DKJ

Crystal structure of human NAMPT complexed with benzamide and phosphoribosyl pyrophosphate

Ho, M., Burgos, E.S., Almo, S.C., Schramm, V.L.

(2009) Proc Natl Acad Sci U S A **106**: 13748-13753

<b>Released</b>	2009-08-18
<b>Method</b>	X-RAY DIFFRACTION 2 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	PRP, UNU


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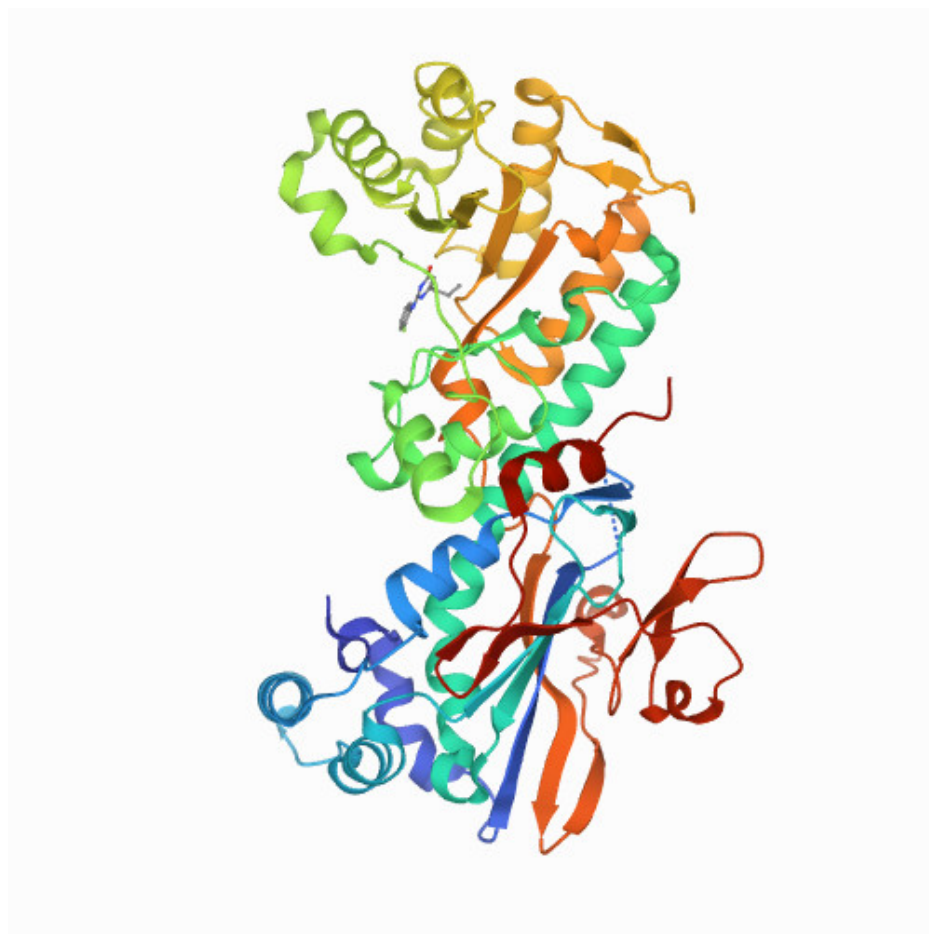

## 4JNM

### Discovery of Potent and Efficacious Urea-containing Nicotinamide Phosphoribosyltransferase (NAMPT) Inhibitors with Reduced CYP2C9 Inhibition Properties

Gunzner-Toste, J., Zhao, G., Bauer, P., Baumeister, T., Buckmelter, A.J., Caligiuri, M., Clodfelter, K.H., Fu, B., Han, B., Ho, Y., Kley, N., Liederer, B., Lin, J., Mukadam, S., O'Brien, T., Reynolds, D.J., Sharma, G., Skelton, N., Smith, C.C., Oh, A., Wang, W., Wang, Z., Xiao, Y., Yuen, P., Zak, M., Zhang, L., Zheng, X., Bair, K.W., Dragovich, P.S.

(2013) *Bioorg Med Chem Lett* **23**: 3531-3538

<b>Released</b>	2013-05-29
<b>Method</b>	X-RAY DIFFRACTION 2.2 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	1LJ, EDO, PO4

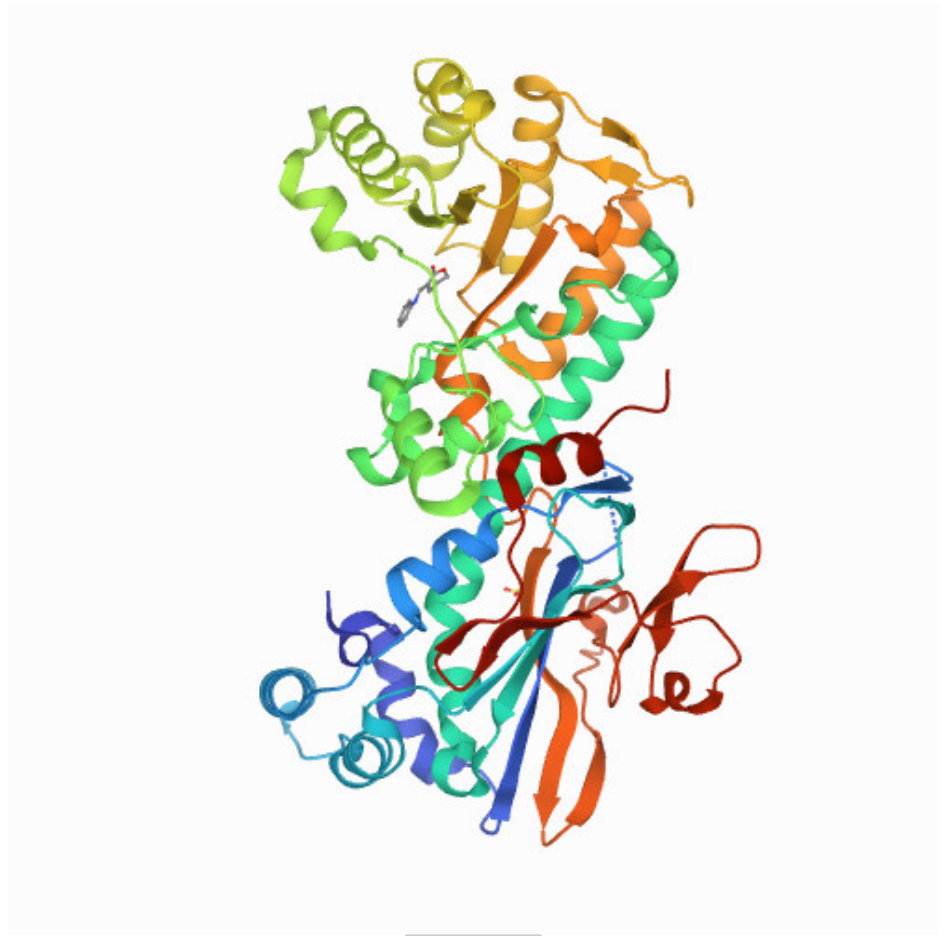
[3D View](#)**5W10**[Download File](#)[View File](#)

Crystal structure of human NAMPT with fragment 2: 2-[(2-fluorophenyl)amino]-6-propylpyrimidin-4(3H)-one

Longenecker, K.L., Raich, D., Korepanova, A.V.

(2018) *Bioorg Med Chem Lett* **28**: 437-440

<b>Released</b>	2018-01-10
<b>Method</b>	X-RAY DIFFRACTION 2.05 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	AQ1

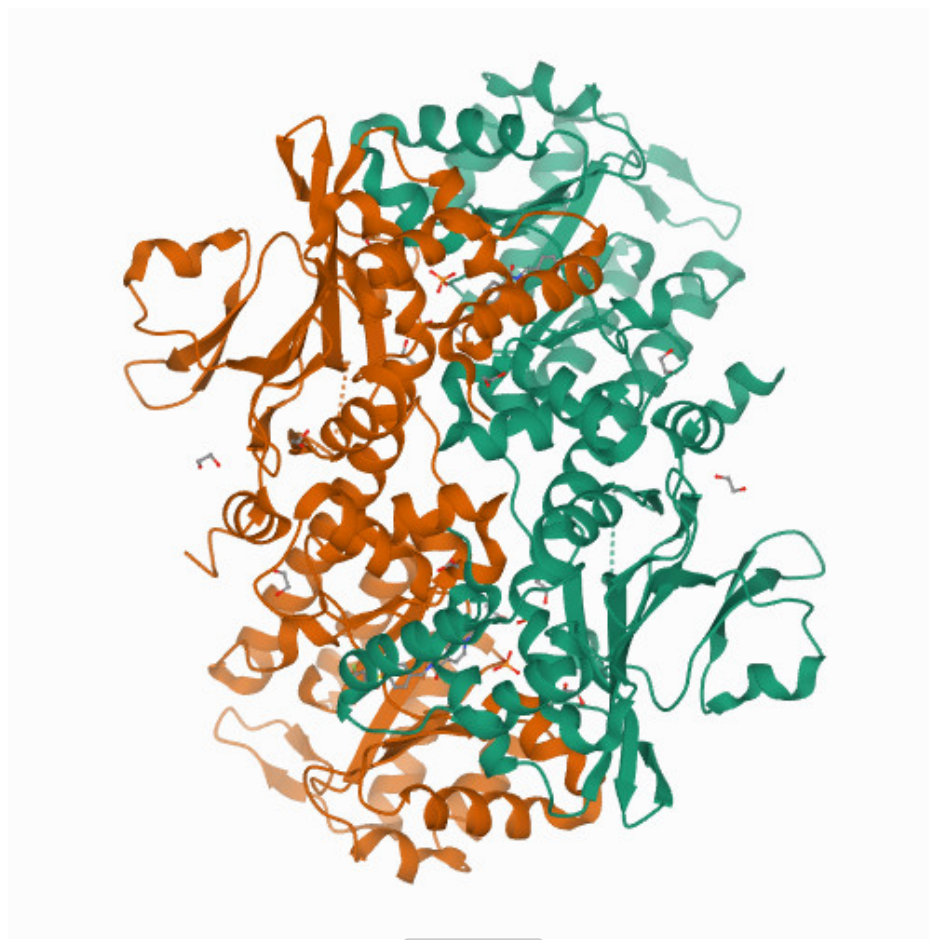
[3D View](#)[Download File](#) [View File](#) **5WI1**

Crystal structure of human NAMPT with fragment 5: (3E)-3-[(phenylamino)methylidene]oxan-2-one

Longenecker, K.L., Raich, D., Korepanova, A.V.

(2018) Bioorg Med Chem Lett **28**: 437-440

<b>Released</b>	2018-01-10
<b>Method</b>	X-RAY DIFFRACTION 1.99 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	AOY, SO4

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### Structural and Biochemical Analyses of the Catalysis and Potency Impact of Inhibitor Phosphoribosylation by Human Nicotinamide Phosphoribosyltransferase

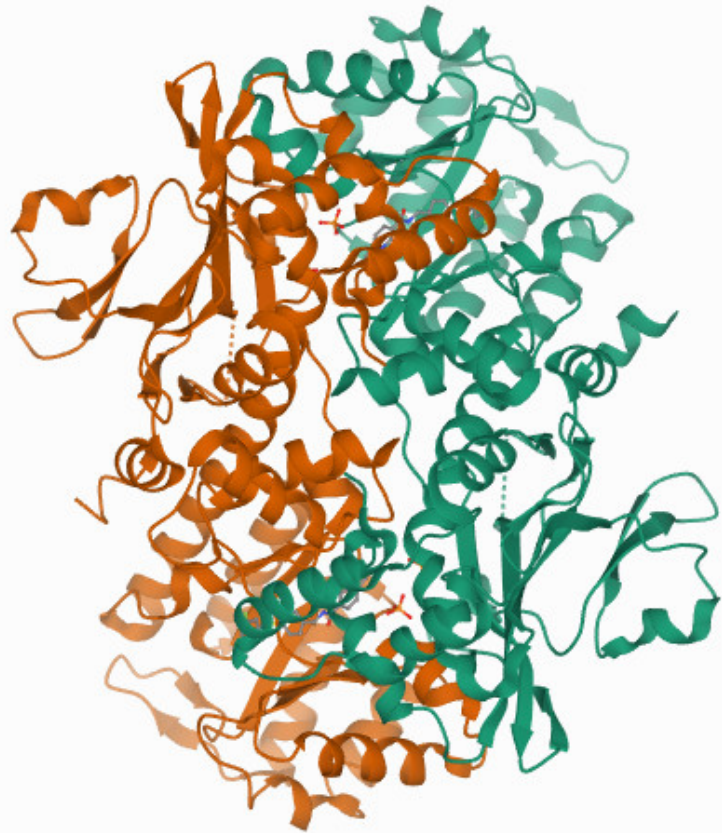
Oh, A., Wang, W.

(2014) *Chembiochem* **15**: 1121-1130

<b>Released</b>	2014-06-18
<b>Method</b>	X-RAY DIFFRACTION 1.55 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	2QF, EDO, PO4





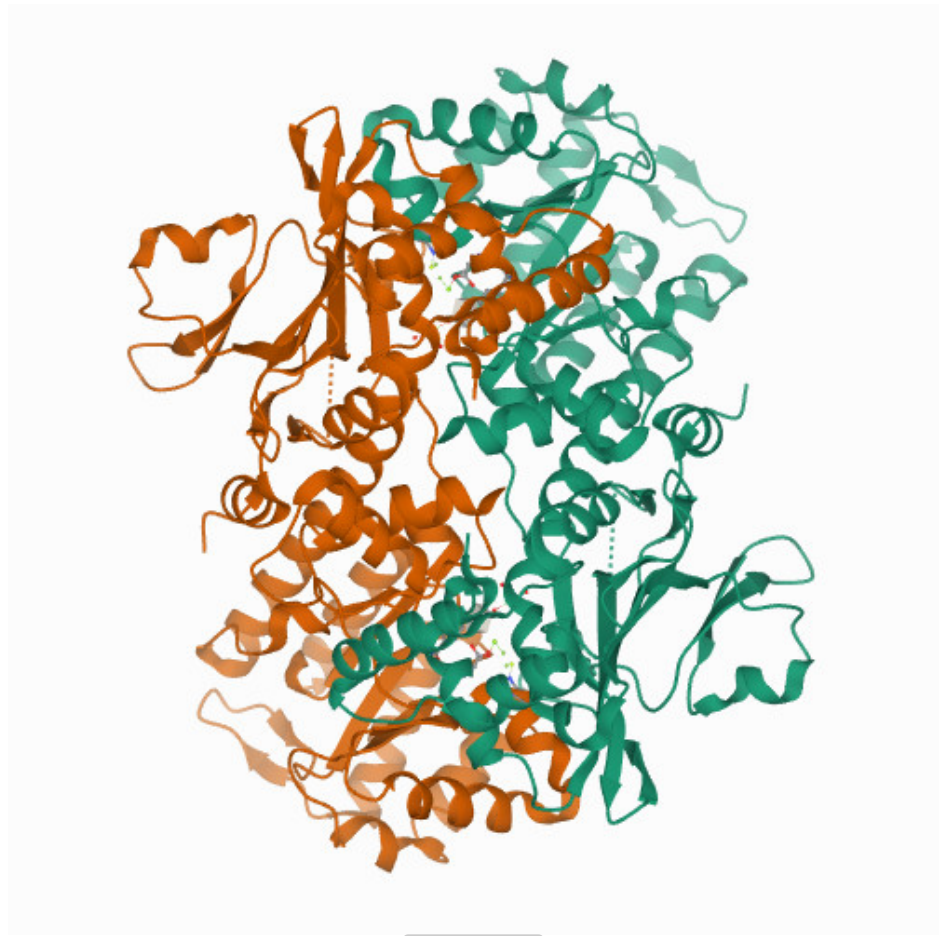
[3D View](#)[Download File](#) [View File](#) **4O0Z**

## Structural and Biochemical Analyses of the Catalysis and Potency Impact of Inhibitor Phosphorylation by Human Nicotinamide Phosphoribosyltransferase

Oh, A., Wang, W.

(2014) *Chembiochem* **15**: 1121-1130

<b>Released</b>	2014-06-18
<b>Method</b>	X-RAY DIFFRACTION 2.049 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	2RM, PO4


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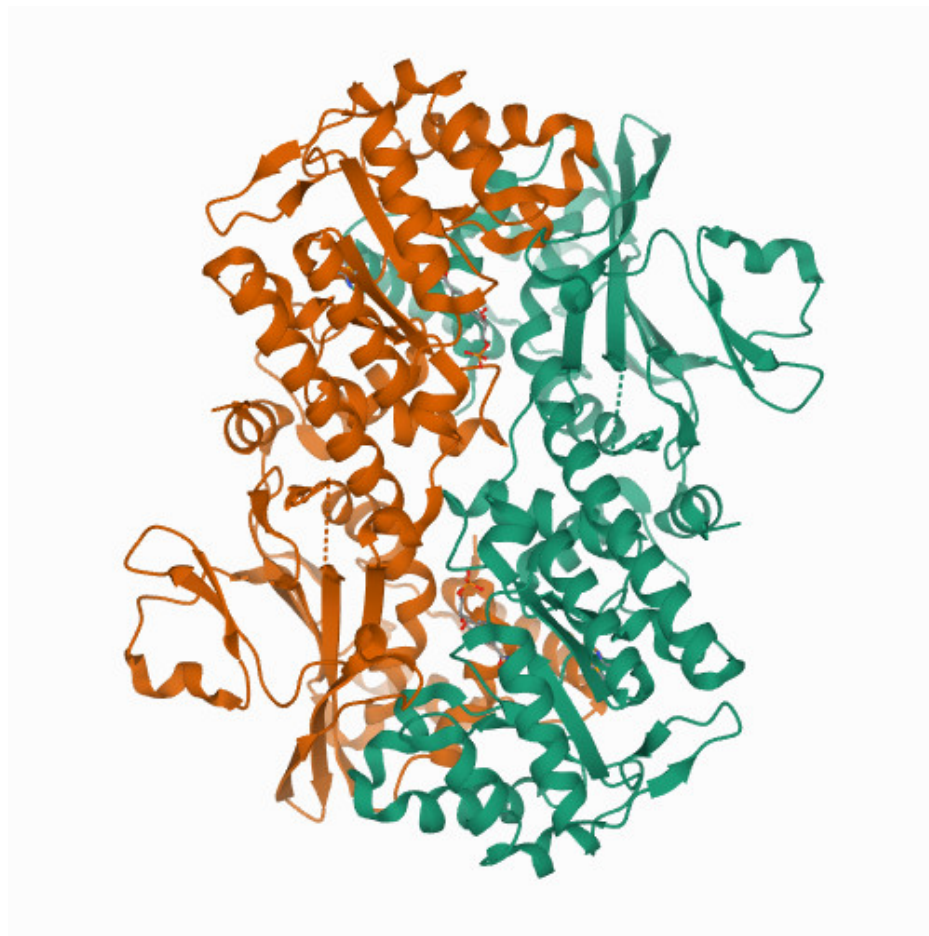

## 3DKL

Crystal structure of phosphorylated mimic form of human NAMPT complexed with benzamide and phosphoribosyl pyrophosphate

Ho, M., Burgos, E.S., Almo, S.C., Schramm, V.L.

(2009) Proc Natl Acad Sci U S A **106**: 13748-13753

<b>Released</b>	2009-08-18
<b>Method</b>	X-RAY DIFFRACTION 1.89 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	BEF, MG, PRP, UNU


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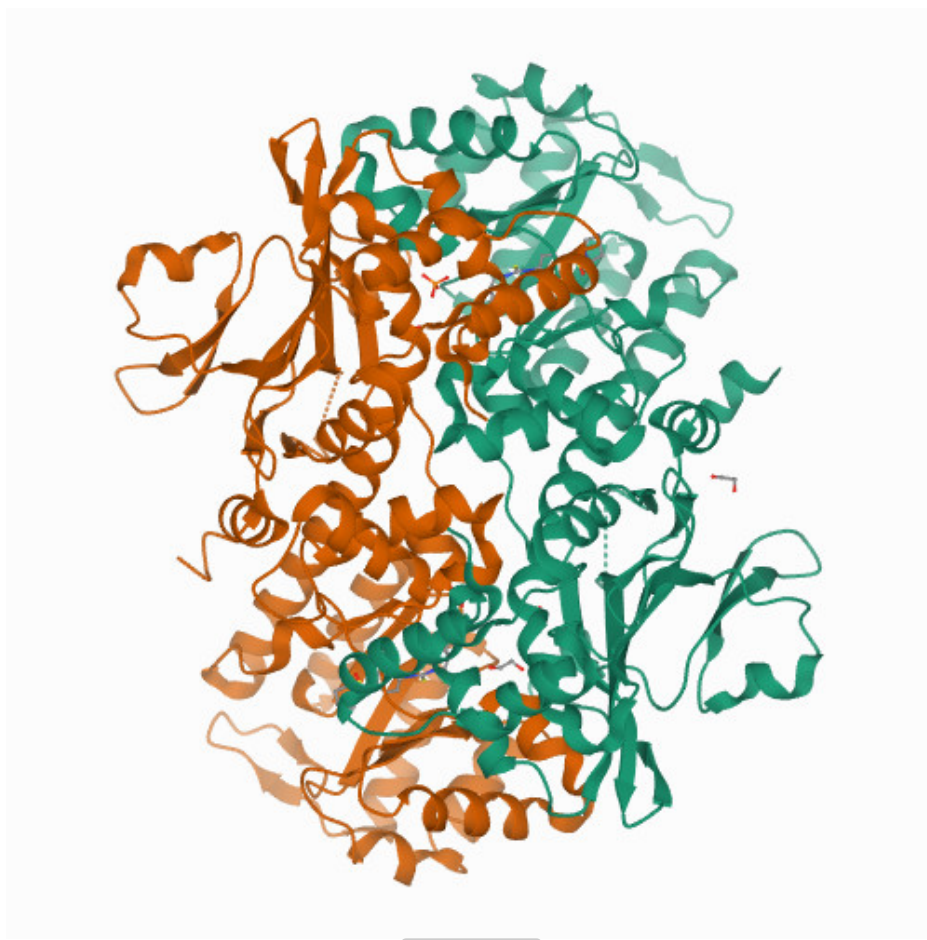

## 2H3D

### Crystal Structure of Mouse Nicotinamide Phosphoribosyltransferase/Visfatin/Pre-B Cell Colony Enhancing Factor in Complex with Nicotinamide Mononucleotide

Wang, T., Zhang, X., Bheda, P., Revollo, J.R., Imai, S.I., Wolberger, C.

(2006) *Nat Struct Mol Biol* **13**: 661-662

<b>Released</b>	2006-06-20
<b>Method</b>	X-RAY DIFFRACTION 2.1 Å
<b>Organisms</b>	Mus musculus
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	NMN

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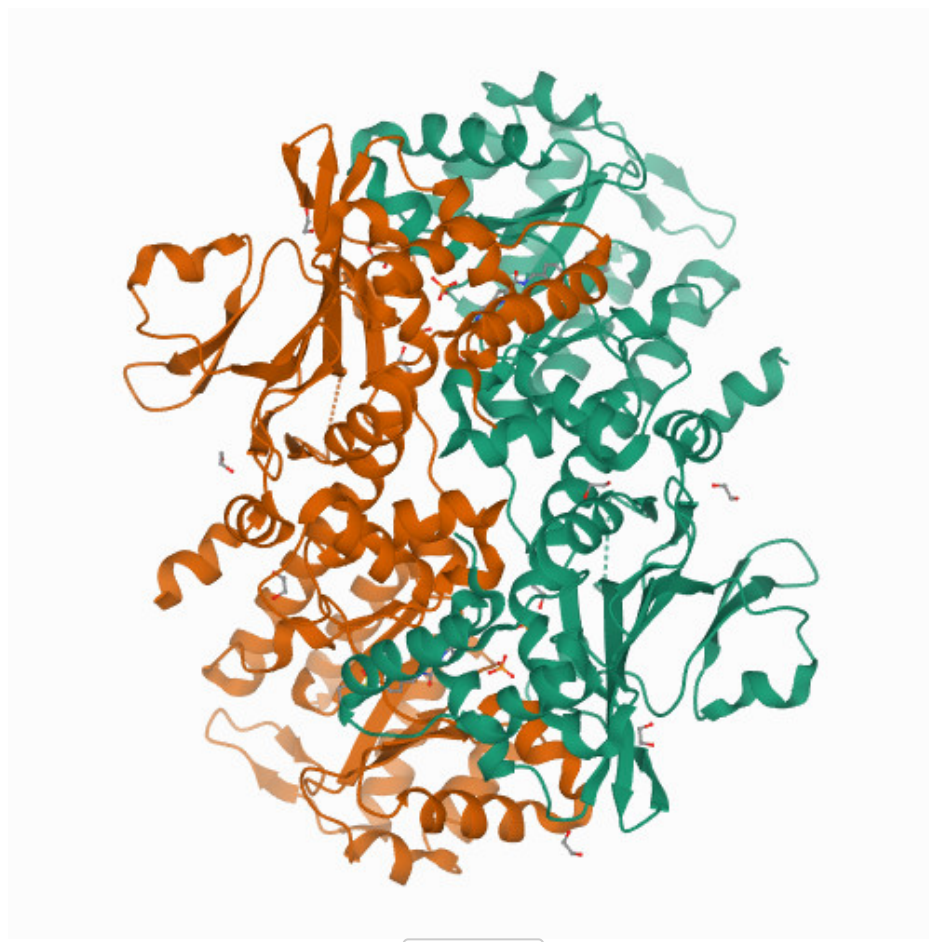
## 4JR5

### Structure-based Identification of Ureas as Novel Nicotinamide Phosphoribosyltransferase (Nampt) Inhibitors

Zheng, X., Bauer, P., Baumeister, T., Buckmelter, A.J., Caligiuri, M., Clodfelter, K.H., Han, B., Ho, Y., Kley, N., Lin, J., Reynolds, D.J., Sharma, G., Smith, C.C., Wang, Z., Dragovich, P.S., Oh, A., Wang, W., Zak, M., Gunzner-Toste, J., Zhao, G., Yuen, P., Bair, K.W.

(2013) J Med Chem **56**: 4921-4937

<b>Released</b>	2013-05-08
<b>Method</b>	X-RAY DIFFRACTION 1.906 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	1LS, EDO, PO4


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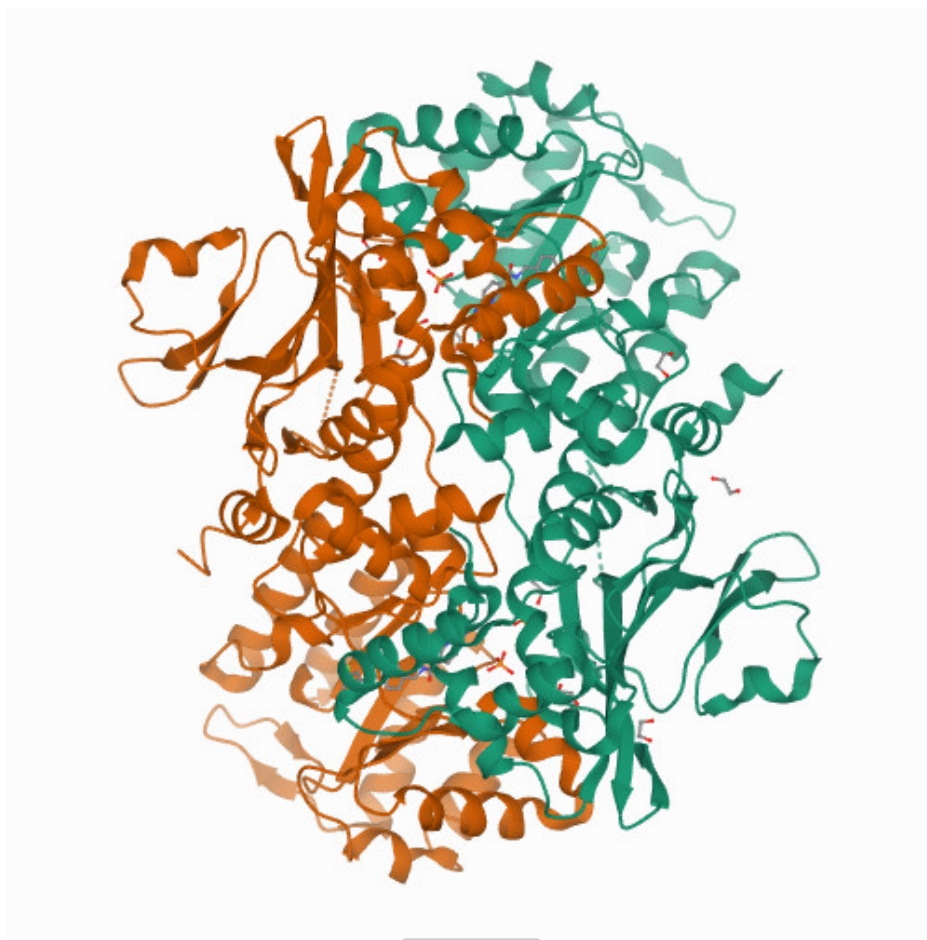
## 4KFN

### Structure-Based Discovery of Novel Amide-Containing Nicotinamide Phosphoribosyltransferase (Nampt) Inhibitors

Zheng, X., Bauer, P., Baumeister, T., Buckmelter, A.J., Caligiuri, M., Clodfelter, K.H., Han, B., Ho, Y., Kley, N., Lin, J., Reynolds, D.J., Sharma, G., Smith, C.C., Wang, Z., Dragovich, P.S., Gunzner-Toste, J., Liederer, B.M., Ly, J., O'Brien, T., Oh, A., Wang, L., Wang, W., Xiao, Y., Zak, M., Zhao, G., Yuen, P., Bair, K.W.

(2013) J Med Chem **56**: 4921-4937

<b>Released</b>	2013-05-08
<b>Method</b>	X-RAY DIFFRACTION 1.6 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	1QR, EDO, PO4

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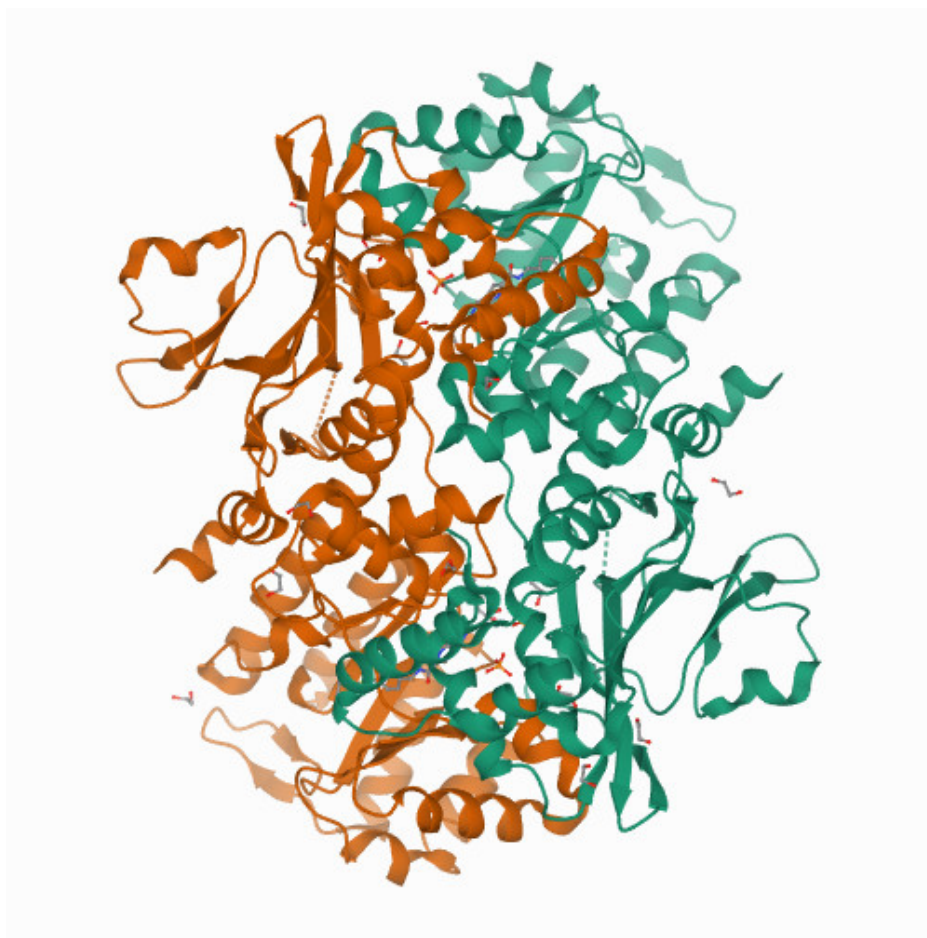
## 4KFO

### Structure-Based Discovery of Novel Amide-Containing Nicotinamide Phosphoribosyltransferase (Nampt) Inhibitors

Zheng, X., Bauer, P., Baumeister, T., Buckmelter, A.J., Caligiuri, M., Clodfelter, K.H., Han, B., Ho, Y., Kley, N., Lin, J., Reynolds, D.J., Sharma, G., Smith, C.C., Wang, Z., Dragovich, P.S., Gunzner-Tosteb, J., Liederer, B.M., Ly, J., O'Brien, T., Oh, A., Wang, L., Wang, W., Xiao, Y., Zak, M., Zhao, G., Yuen, P., Bair, K.W.

(2013) J Med Chem **56**: 4921-4937

<b>Released</b>	2013-05-08
<b>Method</b>	X-RAY DIFFRACTION 1.6 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	1QS, EDO, PO4


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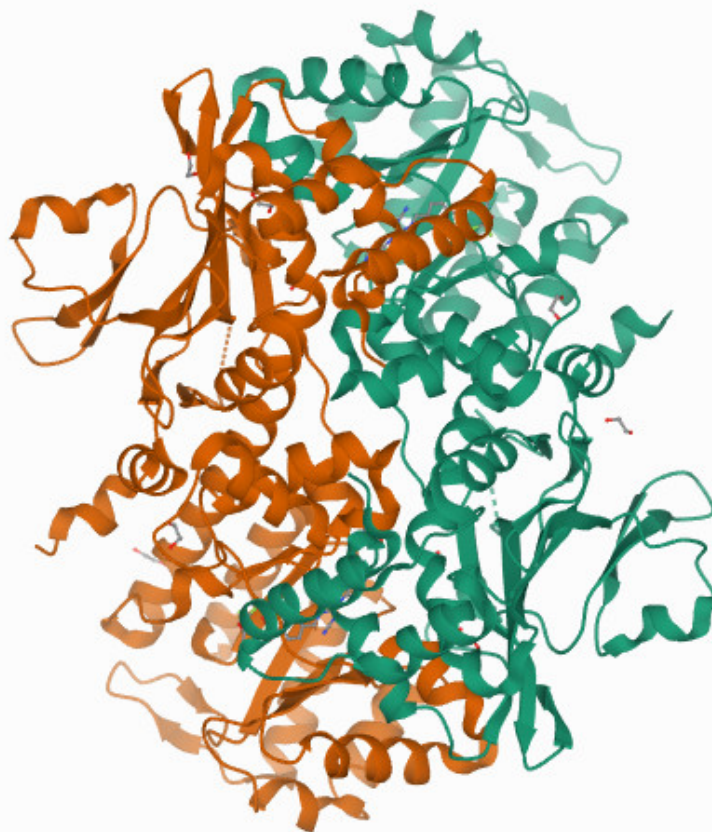

## 4LWW

### Discovery of Potent and Efficacious Cyanoguanidine-containing Nicotinamide Phosphoribosyltransferase (Nampt) Inhibitors

Zheng, X., Baumeister, T., Buckmelter, A.J., Caligiuri, M., Clodfelter, K.H., Han, B., Ho, Y., Kley, N., Lin, J., Reynolds, D.J., Sharma, G., Smith, C.C., Wang, Z., Dragovich, P.S., Oh, A., Wang, W., Zak, M., Wang, L., Yuen, P., Bair, K.W.

(2014) *Bioorg Med Chem Lett* **24**: 337-343

<b>Released</b>	2013-12-25
<b>Method</b>	X-RAY DIFFRACTION 1.641 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	EDO, LWW, PO4


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## 4LTS

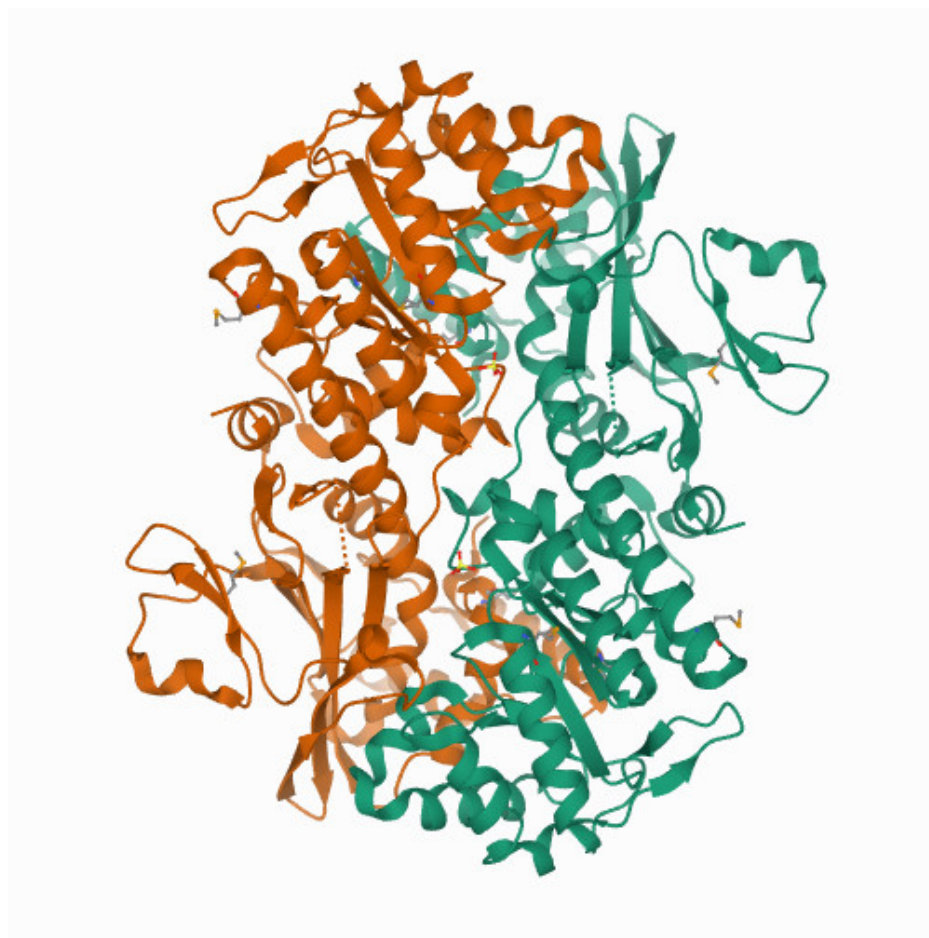
### Discovery of Potent and Efficacious Cyanoguanidine-containing Nicotinamide Phosphoribosyltransferase (Namp) Inhibitors

Zheng, X., Baumeister, T., Buckmelter, A.J., Caligiuri, M., Clodfelter, K.H., Han, B., Ho, Y., Kley, N., Lin, J., Reynolds, D.J., Sharma, G., Smith, C.C., Wang, Z., Dragovich, P.S., Oh, A., Wang, W., Zak, M., Wang, L., Yuen, P., Bair, K.W.

(2014) *Bioorg Med Chem Lett* **24**: 337-343

<b>Released</b>	2013-12-25
<b>Method</b>	X-RAY DIFFRACTION 1.692 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	EDO, LTS, PO4



[3D View](#)

## 2H3B

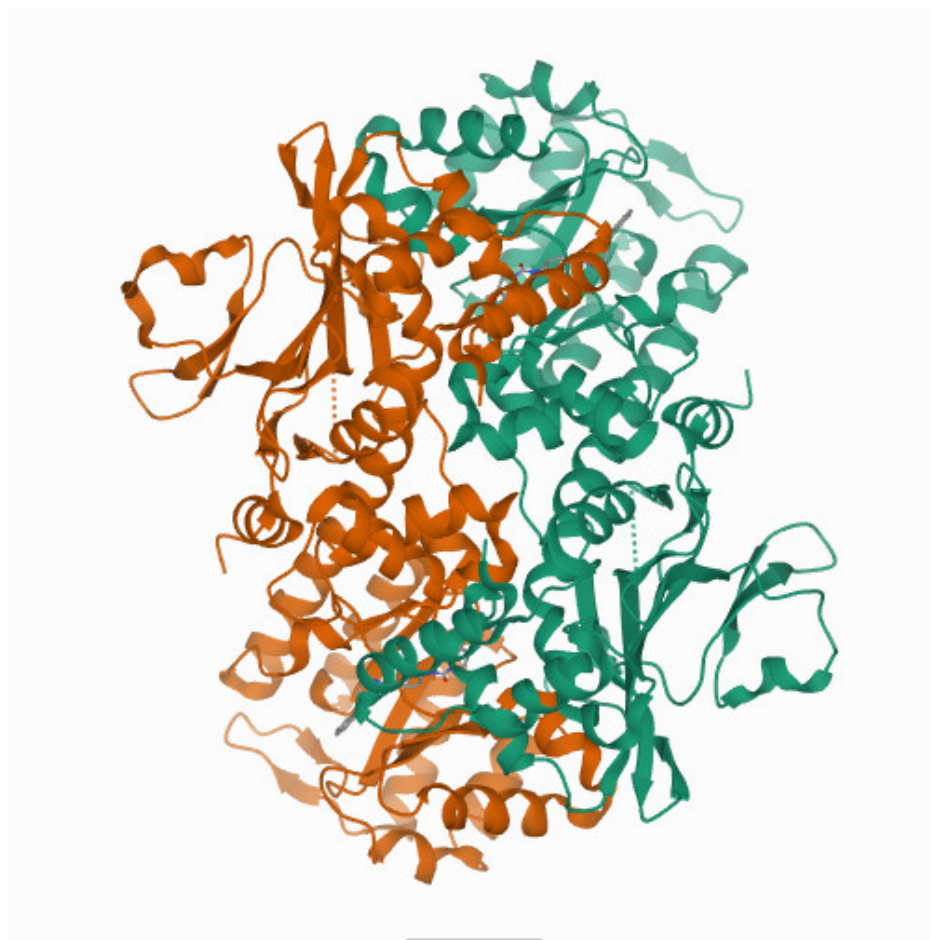
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Crystal Structure of Mouse Nicotinamide Phosphoribosyltransferase/Visfatin/Pre-B Cell Colony Enhancing Factor 1

Wang, T., Zhang, X., Bheda, P., Revollo, J.R., Imai, S.I., Wolberger, C.

(2006) Nat Struct Mol Biol **13**: 661-662

<b>Released</b>	2006-06-20
<b>Method</b>	X-RAY DIFFRACTION 1.95 Å
<b>Organisms</b>	Mus musculus
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	SO4

[3D View](#)

## 5UPE

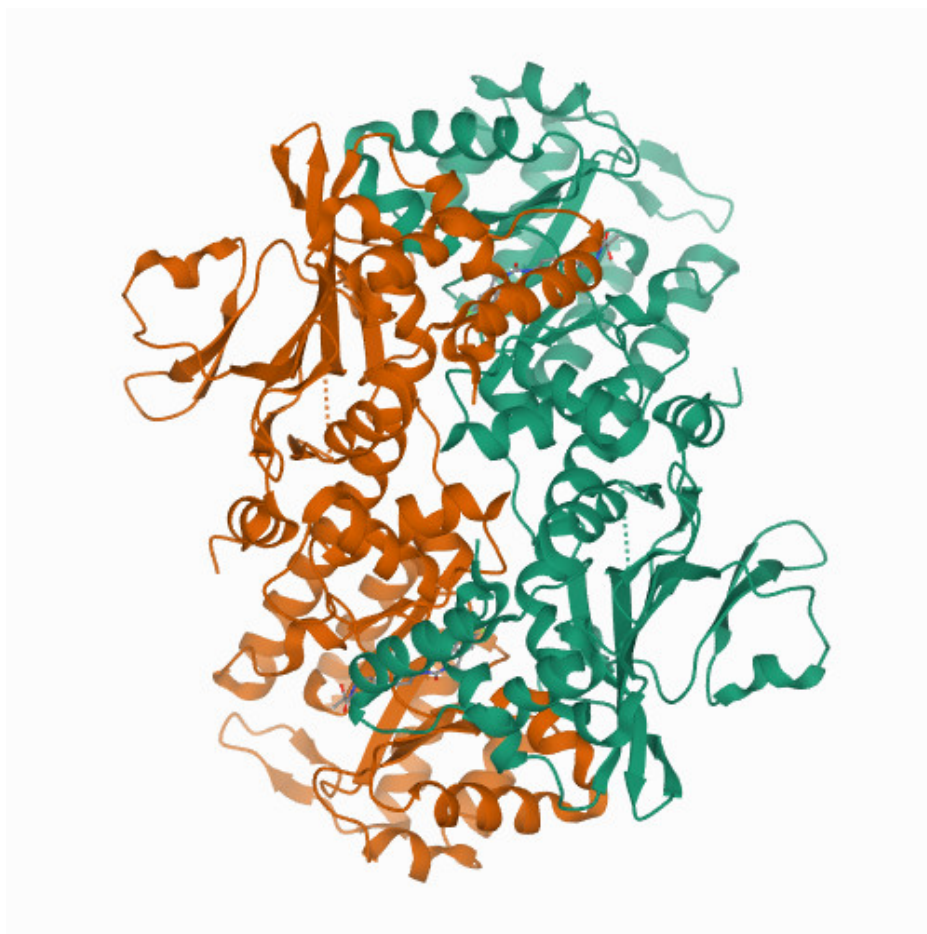
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Crystal structure of human NAMPT with isoindoline urea inhibitor compound 5

Longenecker, K.L., Raich, D., Korepanova, A.V.

(2017) *Bioorg Med Chem Lett* **27**: 3317-3325

<b>Released</b>	2017-06-28
<b>Method</b>	X-RAY DIFFRACTION 1.93 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	8HY

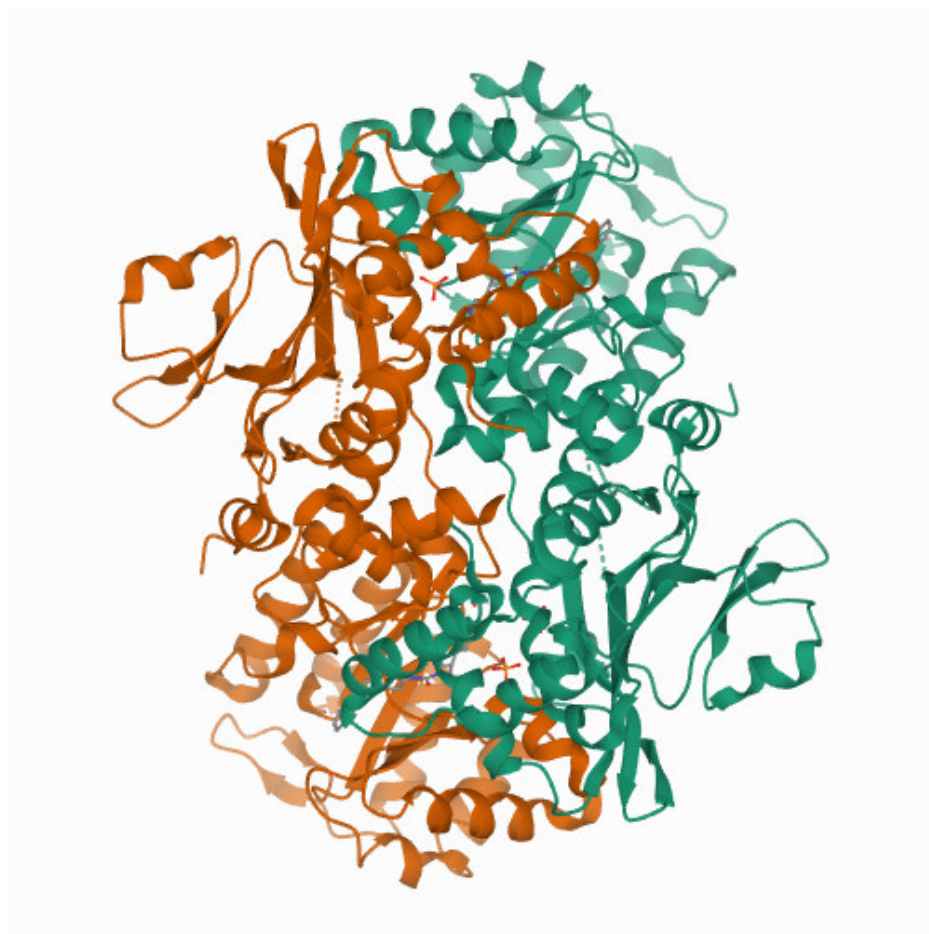
[3D View](#)**5UPF**[Download File](#)[View File](#)

Crystal structure of human NAMPT with isoindoline urea inhibitor compound 53

Longenecker, K.L., Raich, D., Korepanova, A.V.

(2017) Bioorg Med Chem Lett **27**: 3317-3325

<b>Released</b>	2017-06-28
<b>Method</b>	X-RAY DIFFRACTION 1.69 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	8HV

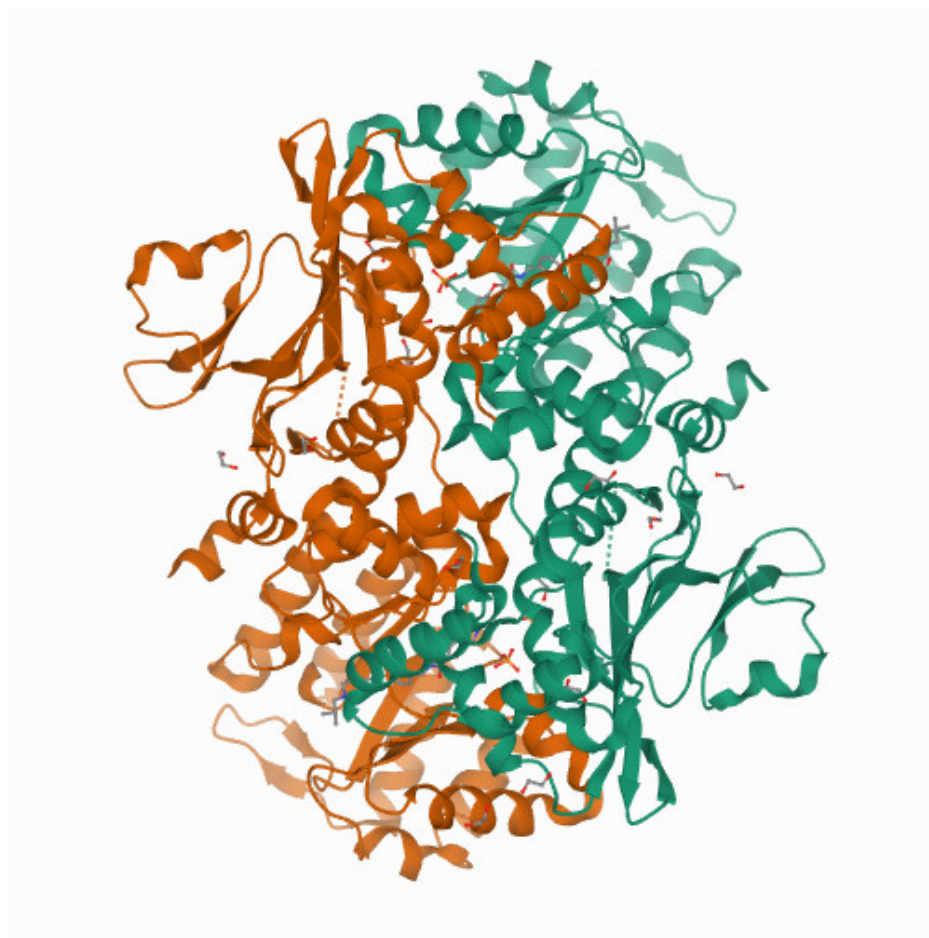
[3D View](#)**6PEB**[Download File](#) [View File](#) 

## Crystal Structure of human NAMPT in complex with NVP-LTM976

Weihofen, W.A.

(2019) ACS Med Chem Lett **10**: 1524-1529

<b>Released</b>	2019-12-04
<b>Method</b>	X-RAY DIFFRACTION 2.46 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	OE4, PO4

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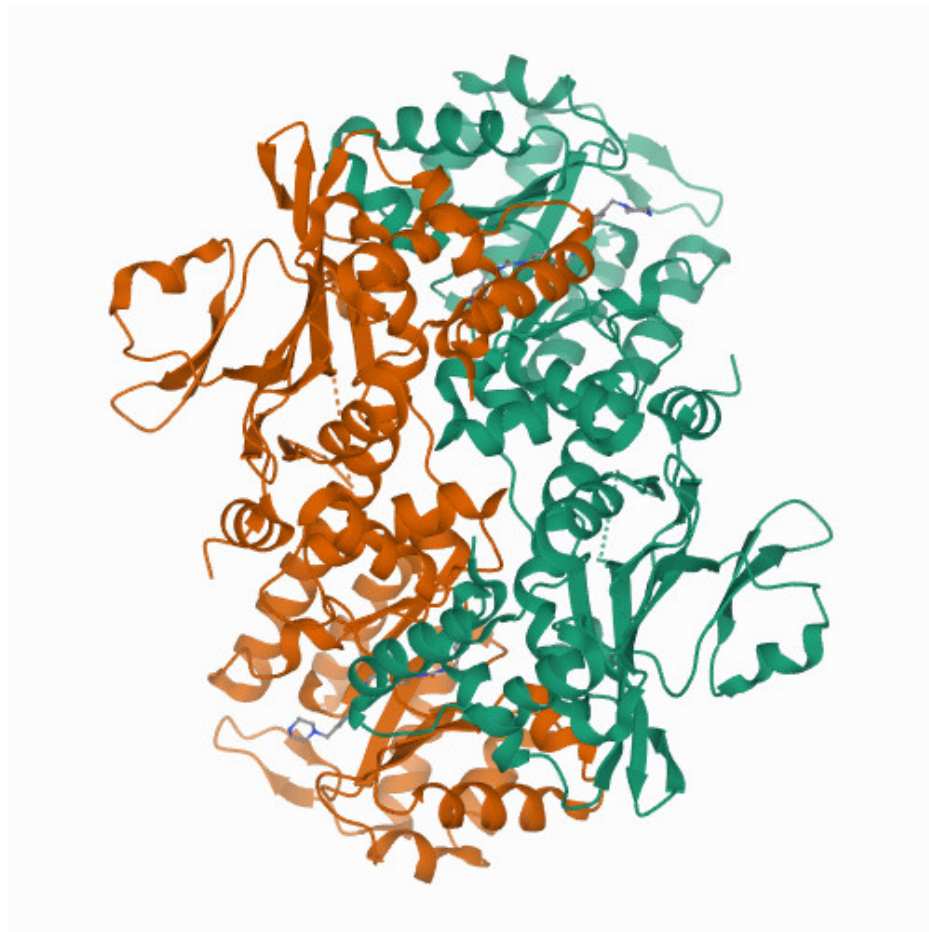
## 4WQ6

The crystal structure of human Nicotinamide phosphoribosyltransferase (NAMPT) in complex with N-(4-{{(S)-[1-(2-methylpropyl)piperidin-4-yl]sulfinyl}benzyl)furo[2,3-c]pyridine-2-carboxamide inhibitor (compound 21)

Li, D., Wang, W.

(2015) *Bioorg Med Chem Lett* **25**: 529-541

<b>Released</b>	2015-02-11
<b>Method</b>	X-RAY DIFFRACTION 1.72 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	3TQ, EDO, PO4

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## 6B75

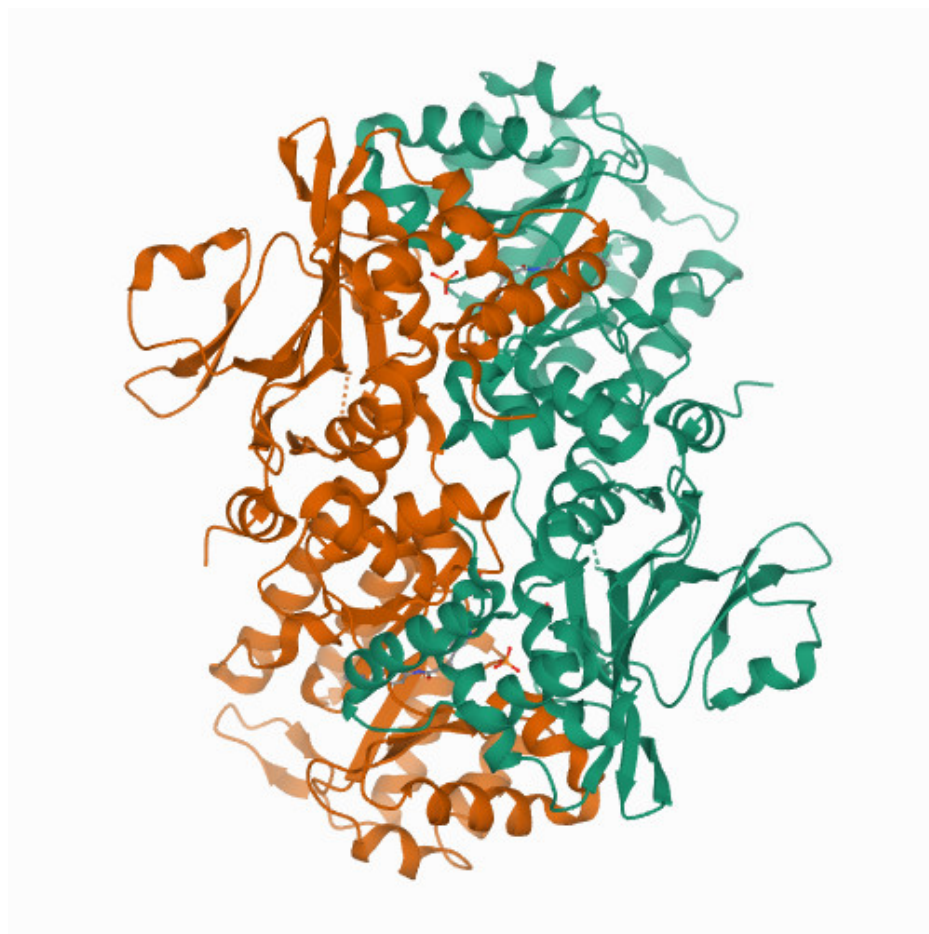
Crystal Structure of human NAMPT in complex with NVP-LOQ594

Weihofen, W.A., Thigale, S.

To be published

<b>Released</b>	2018-10-03
<b>Method</b>	X-RAY DIFFRACTION 2.53 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	CVP



[3D View](#)**6B76**[Download File](#) [View File](#)**Crystal Structure of human NAMPT in complex with NVP-LVR596**

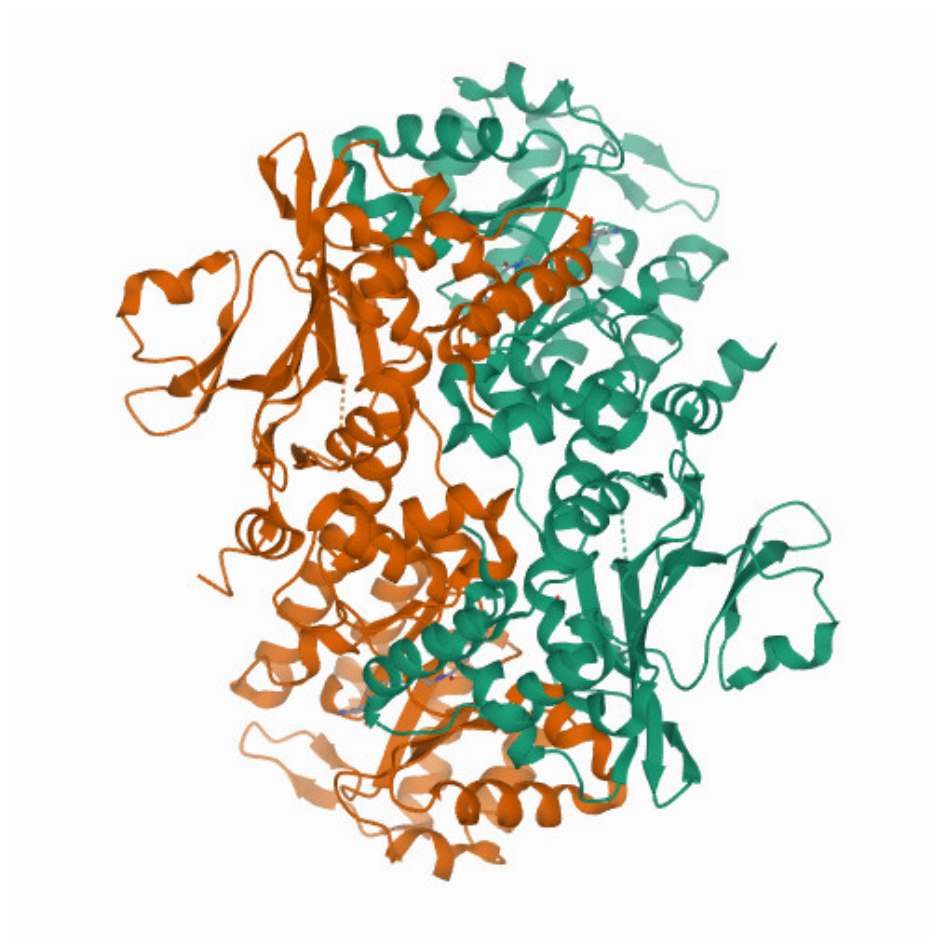
Weihofen, W.A., Thigale, S.

To be published

<b>Released</b>	2018-10-03
<b>Method</b>	X-RAY DIFFRACTION 2.44 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	CVJ, PO4





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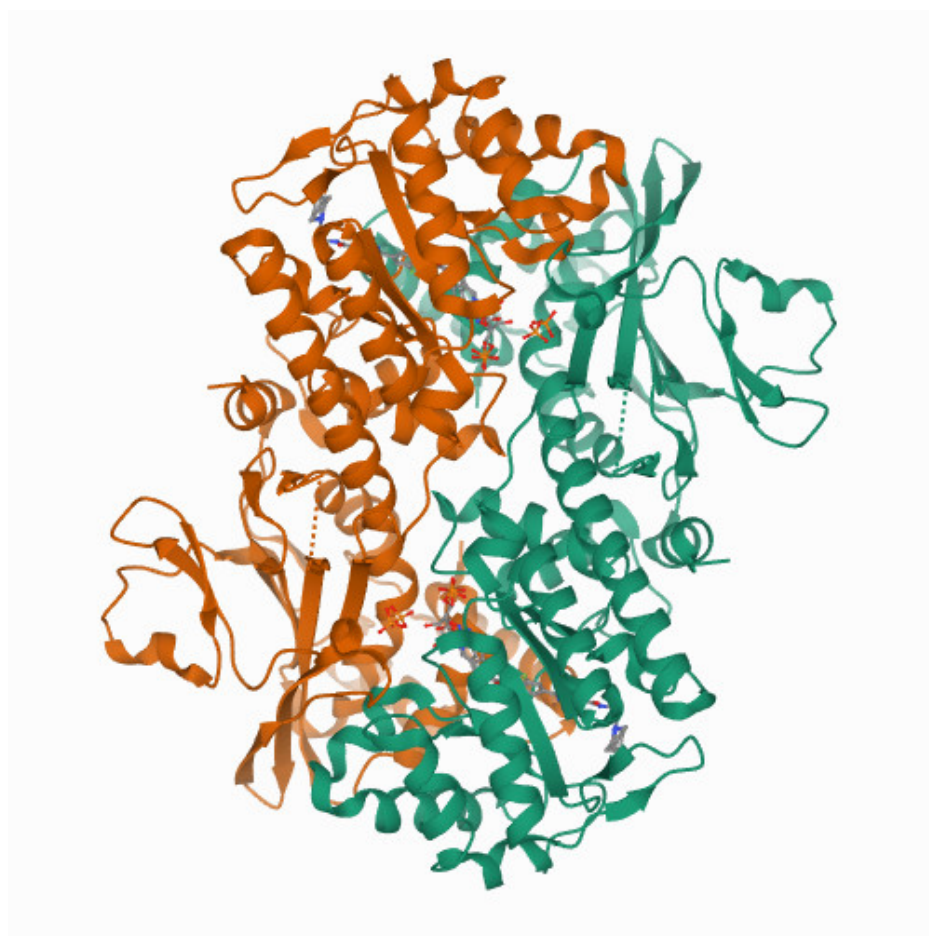
NAMPT co-crystal with inhibitor compound 2

Waight, A.B., Neumann, C.S.

To be published

<b>Released</b>	2018-08-08
<b>Method</b>	X-RAY DIFFRACTION 1.5 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	HVM, PO4





 3D View

5LX5

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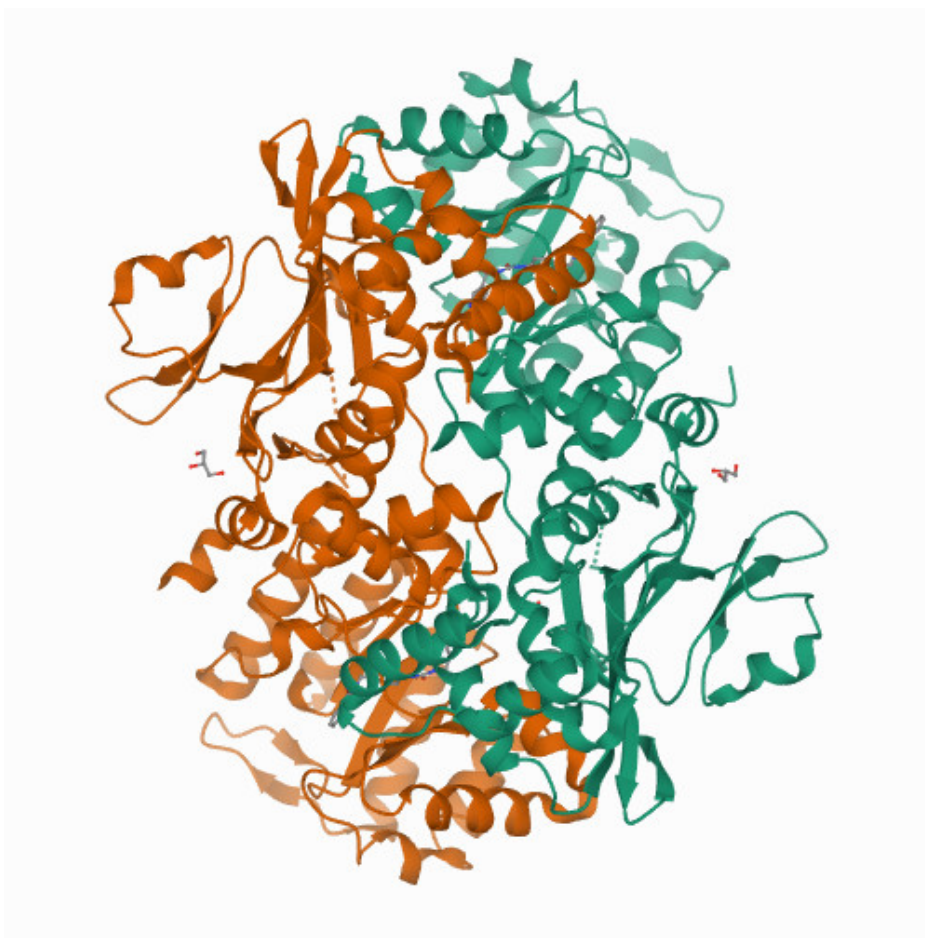


CRYSTAL STRUCTURE OF VISFATIN IN COMPLEX WITH SAR154782-RP.

Bertrand, T., Marquette, J.P.

To be published

<b>Released</b>	2017-10-25
<b>Method</b>	X-RAY DIFFRACTION 1.88 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	7A0, DPO


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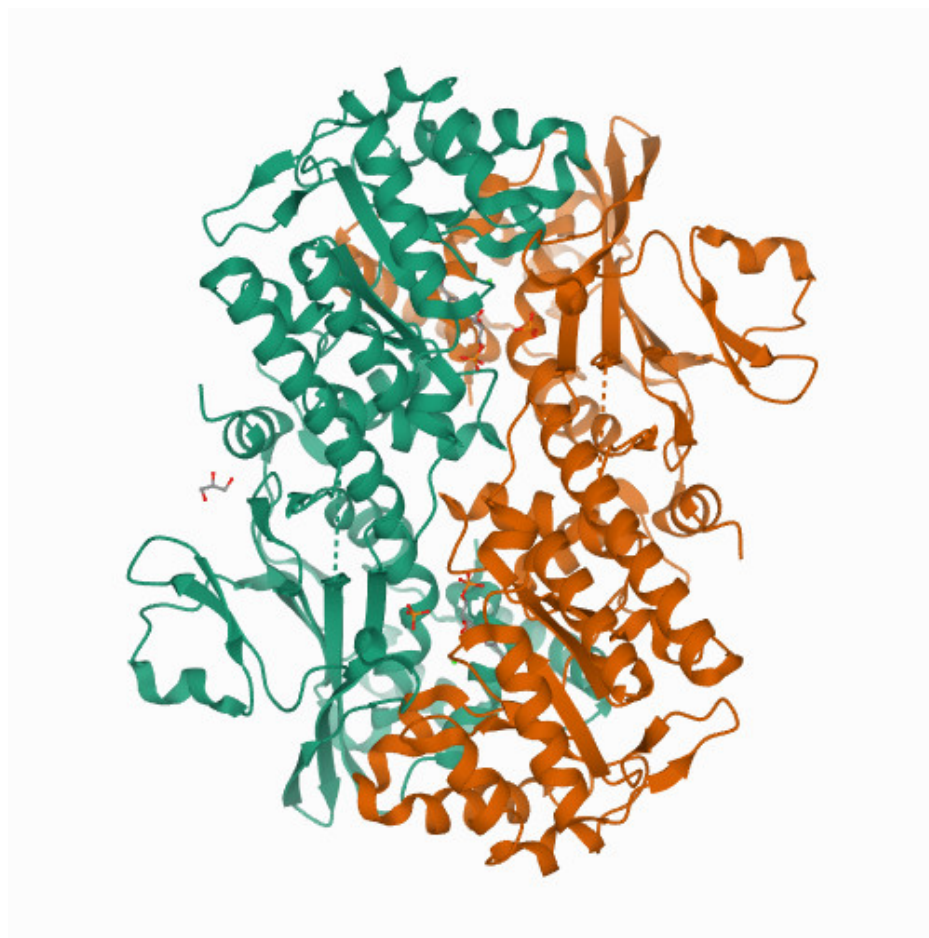

## 6ATB

Crystal Structure of human NAMPT in complex with NVP-LOD812

Weihofen, W.A., Thigale, S.

To be published

<b>Released</b>	2018-09-12
<b>Method</b>	X-RAY DIFFRACTION 2.53 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	BWA, DMS, GOL, PO4

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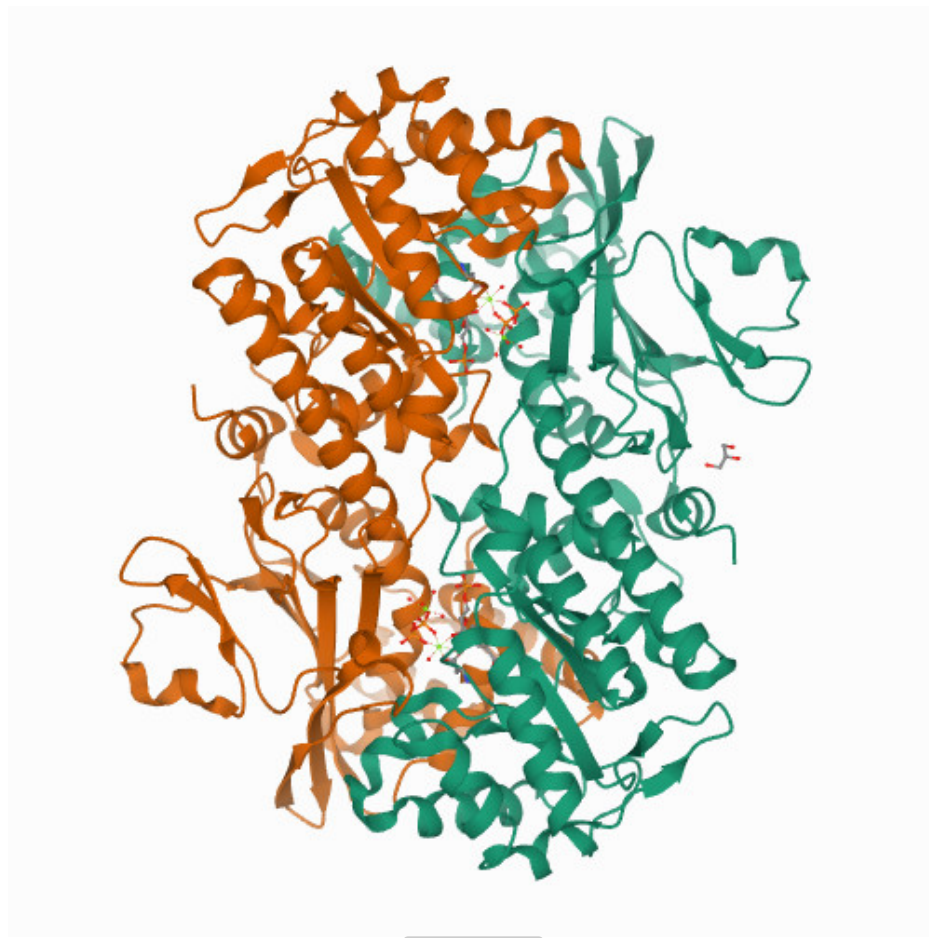
## 6TA2

Human NAMPT in complex with nicotinic acid mononucleotide and phosphate

Houry, D., Raasakka, A., Kursula, P., Ziegler, M.

To be published

<b>Released</b>	2020-11-18
<b>Method</b>	X-RAY DIFFRACTION 1.68 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	CL, GOL, NCN, PO4

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## 6TAC

Human NAMPT deletion mutant in complex with  
nicotinamide mononucleotide, pyrophosphate, and Mg<sup>2+</sup>

Houry, D., Raasakka, A., Kursula, P., Ziegler, M.

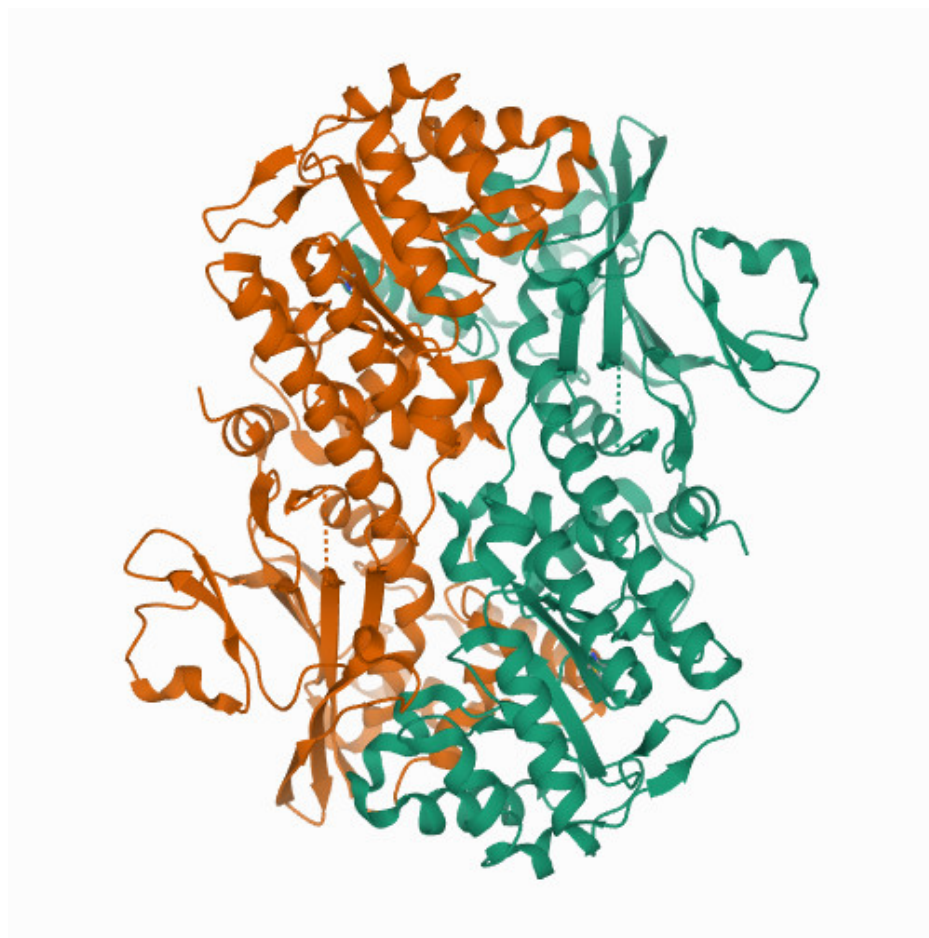
To be published

<b>Released</b>	2020-11-18
<b>Method</b>	X-RAY DIFFRACTION 1.6 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	GOL, MG, NMN, PPV







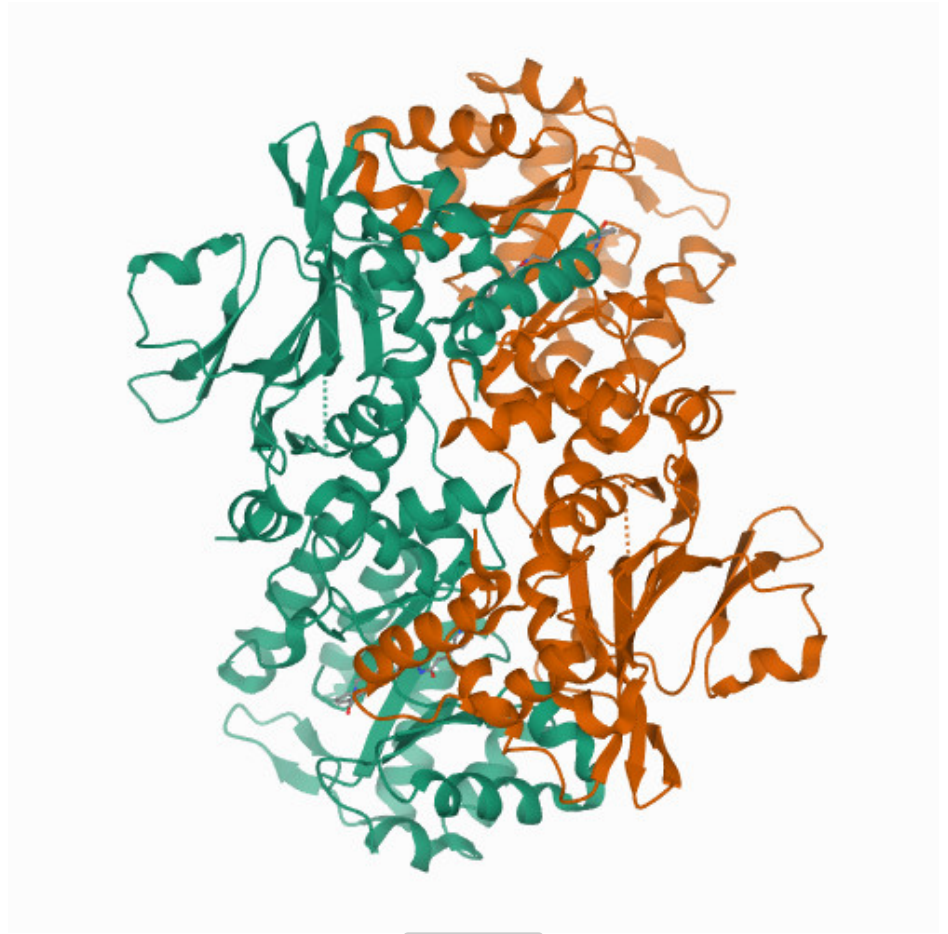
[3D View](#)[Download File](#) [View File](#) **2GVL****Crystal Structure of Murine NMPRTase**

Khan, J.A., Tao, X., Tong, L.

(2006) *Nat Struct Mol Biol* **13**: 582-588

<b>Released</b>	2006-07-25
<b>Method</b>	X-RAY DIFFRACTION 2.1 Å
<b>Organisms</b>	<i>Mus musculus</i>
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)




[3D View](#)
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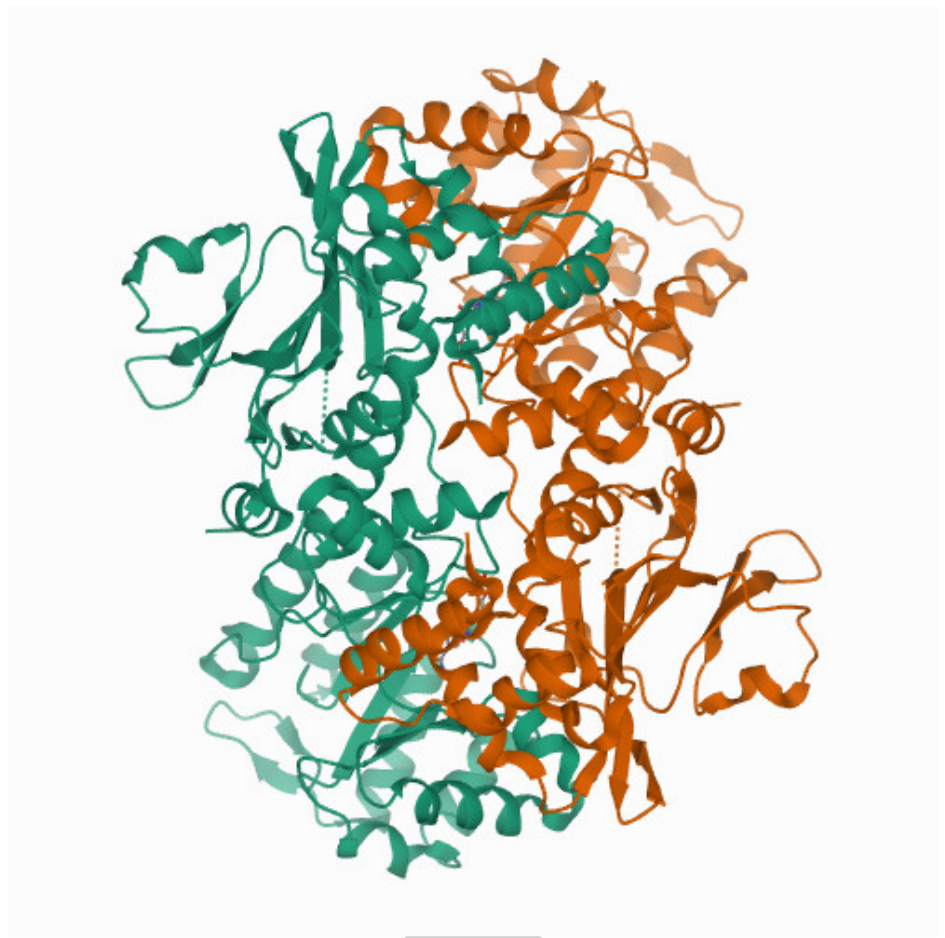

## 2G97

### Crystal Structure of Visfatin/Pre-B Cell Colony Enhancing Factor 1/Nicotinamide Phosphoribosyltransferase In Complex with the Specific Inhibitor FK-866

Kim, M.-K., Eom, S.H.

(2006) J Mol Biol **362**: 66-77

<b>Released</b>	2006-08-01
<b>Method</b>	X-RAY DIFFRACTION 2.9 Å
<b>Organisms</b>	Rattus norvegicus
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	DGB

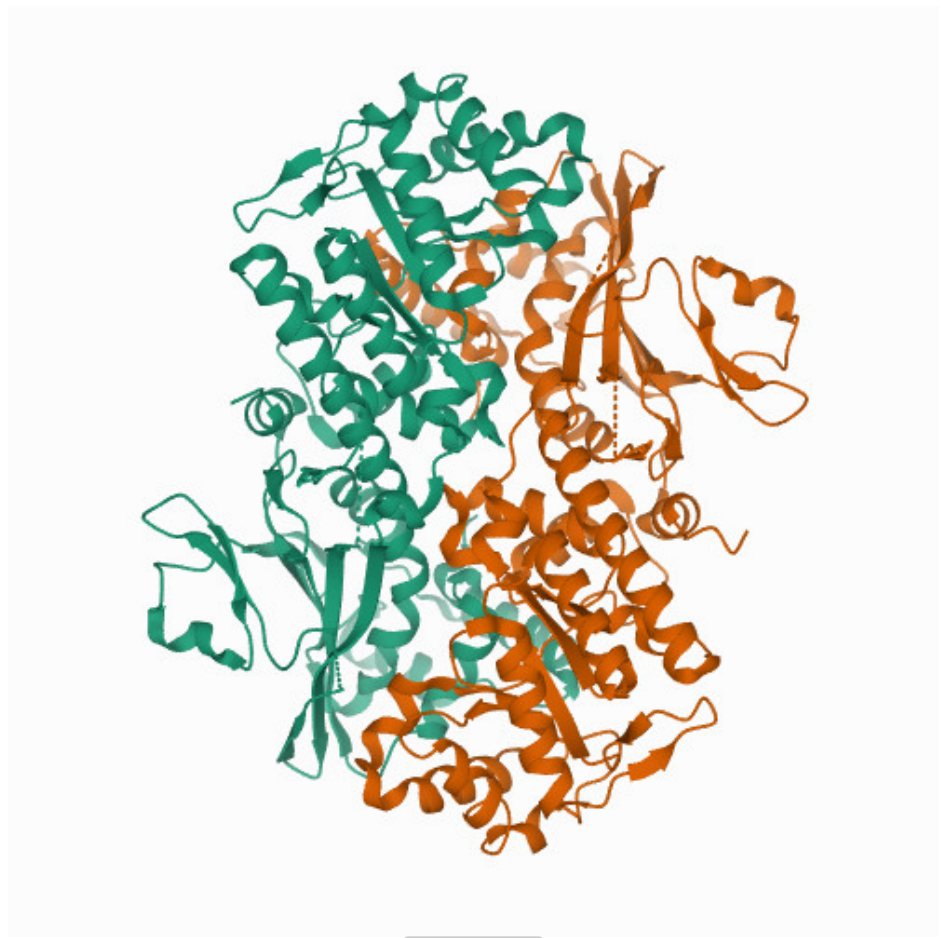
[3D View](#)[Download File](#) [View File](#)**2G96**

Crystal Structure of Visfatin/Pre-B Cell Colony Enhancing Factor 1/Nicotinamide Phosphoribosyltransferase In Complex with Nicotinamide Mononucleotide

Eom, S.H., Kim, M.-K.

(2006) J Mol Biol **362**: 66-77

<b>Released</b>	2006-08-01
<b>Method</b>	X-RAY DIFFRACTION 2.9 Å
<b>Organisms</b>	Rattus norvegicus
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	NMN

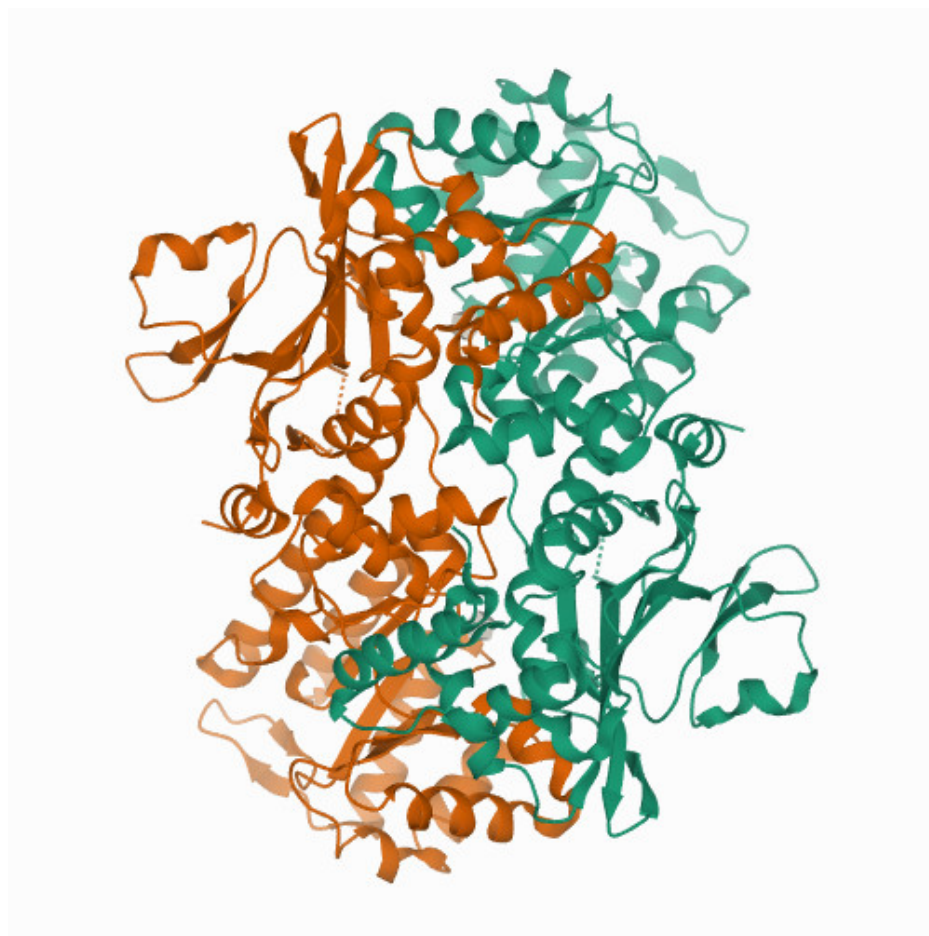
[3D View](#)**2G95**[Download File](#) [View File](#) 

### Crystal Structure of Visfatin/Pre-B Cell Colony Enhancing Factor 1/Nicotinamide Phosphoribosyltransferase

Kim, M.-K., Eom, S.H.

(2006) *J Mol Biol* **362**: 66-77

<b>Released</b>	2006-08-01
<b>Method</b>	X-RAY DIFFRACTION 1.9 Å
<b>Organisms</b>	<i>Rattus norvegicus</i>
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)

[3D View](#)

## 2E5C

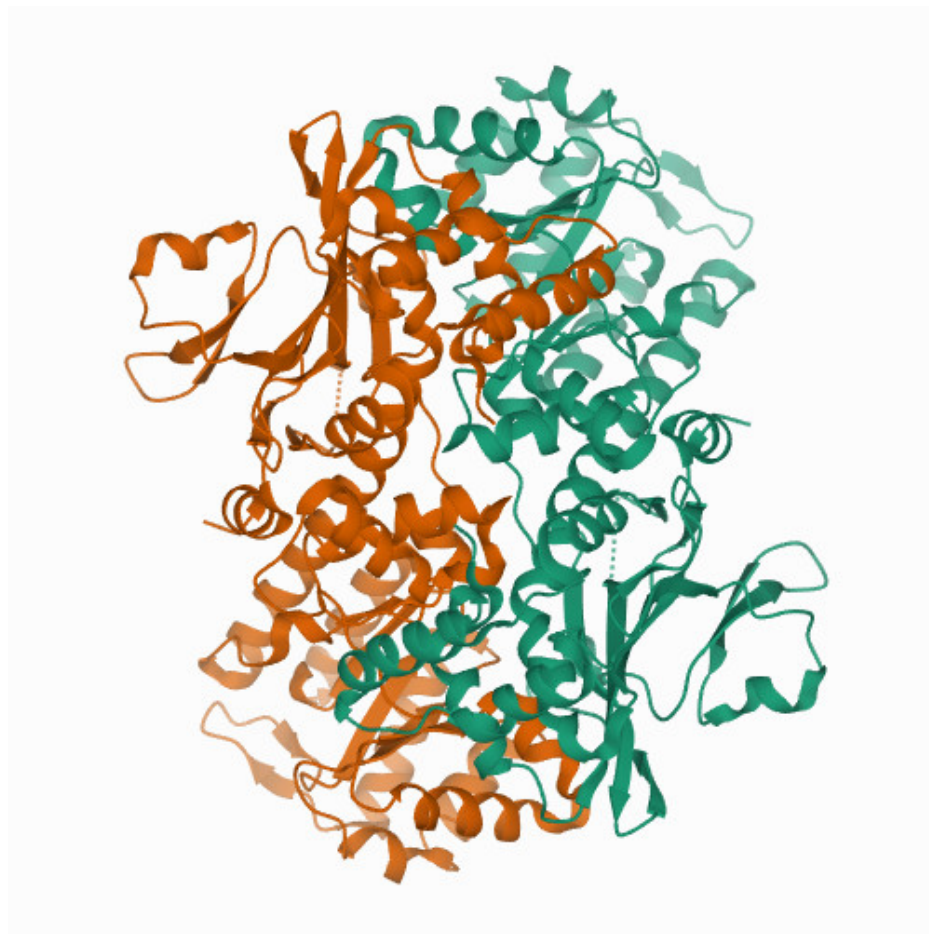
[Download File](#) [View File](#)

Crystal structure of Human NMPRTase complexed with 5'-phosphoribosyl-1'-pyrophosphate

Takahashi, R., Nakamura, S., Kobayashi, Y., Ohkubo, T.

(2010) J Biochem **147**: 95-107

<b>Released</b>	2007-12-25
<b>Method</b>	X-RAY DIFFRACTION 2.2 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	PRP

[3D View](#)**2E5B**[Download File](#) [View File](#)**Crystal structure of Human NMPRTase as free-form**

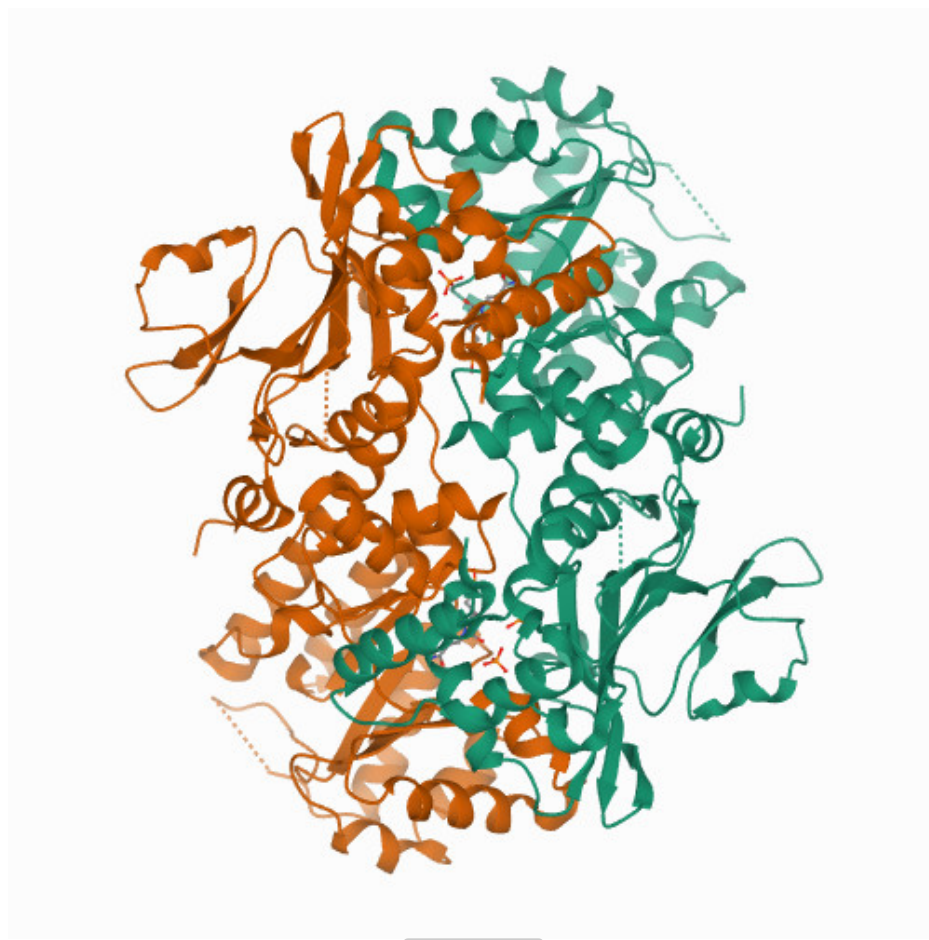
Takahashi, R., Nakamura, S., Kobayashi, Y., Ohkubo, T.

(2010) J Biochem **147**: 95-107

<b>Released</b>	2007-12-25
<b>Method</b>	X-RAY DIFFRACTION 2 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)





[3D View](#)**2GVG**[Download File](#) [View File](#) 

## Crystal Structure of human NMPRTase and its complex with NMN

Khan, J.A., Tao, X., Tong, L.

(2006) Nat Struct Mol Biol **13**: 582-588

<b>Released</b>	2006-06-20
<b>Method</b>	X-RAY DIFFRACTION 2.2 Å
<b>Organisms</b>	Homo sapiens
<b>Macromolecule</b>	Nicotinamide phosphoribosyltransferase (protein)
<b>Unique Ligands</b>	NMN, PO4

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RCSB PDB is funded by the National Science Foundation (DBI-1832184), the US Department of Energy (DE-SC0019749), and the National Cancer Institute, National Institute of Allergy and Infectious Diseases, and National Institute of General Medical Sciences of the National Institutes of Health under grant R01GM133198.