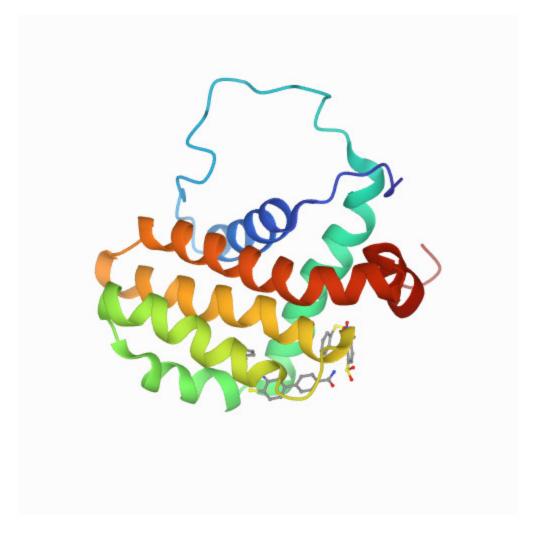
1YSW



rcsb.org/structure/1ysw

NMR Ensemble



Macromolecule Content

• Total Structure Weight: 19.85 kDa

• Atom Count: 1398

• Modelled Residue Count: 164 • Deposited Residue Count: 164

• Unique protein chains: 1

Solution structure of the anti-apoptotic protein Bcl-2 complexed with an acylsulfonamide-based ligand

PDB DOI: <u>10.2210/pdb1YSW/pdb</u>

Classification: <u>APOPTOSIS</u>
Organism(s): <u>Homo sapiens</u>

Expression System: Escherichia coli BL21(DE3)

Mutation(s): No

Deposited: 2005-02-09 **Released:** 2005-06-07

Deposition Author(s): Oltersdorf, T., Elmore, S.W., Shoemaker, A.R., Armstrong, R.C., Augeri, D.J., Belli, B.A., Bruncko, M., Deckwerth, T.L., Dinges, J., Hajduk, P.J., Joseph, M.K., Kitada, S., Korsmeyer, S.J., Kunzer, A.R., Letai, A., Li, C., Mitten, M.J., Nettesheim, D.G., Ng, S., Nimmer, P.M., O'Connor, J.M., Oleksijew, A., Petros, A.M., Reed, J.C., Shen, W., Tahir, S.K., Thompson, C.B., Tomaselli, K.J., Wang, B., Wendt, M.D., Zhang, H., Fesik, S.W., Rosenberg, S.H.

This is version 1.3 of the entry. See complete <u>history</u>.

An inhibitor of BcI-2 family proteins induces regression of solid tumours

Oltersdorf, T., Elmore, S.W., Shoemaker, A.R., Armstrong, R.C., Augeri, D.J., Belli, B.A., Bruncko, M., Deckwerth, T.L., Dinges, J., Hajduk, P.J., Joseph, M.K., Kitada, S., Korsmeyer, S.J., Kunzer, A.R., Letai, A., Li, C., Mitten, M.J., Nettesheim, D.G., Ng, S., Nimmer, P.M., O'Connor, J.M., Oleksijew, A., Petros, A.M., Reed, J.C., Shen, W., Tahir, S.K., Thompson, C.B., Tomaselli, K.J., Wang, B., Wendt, M.D., Zhang, H., Fesik,

S.W., Rosenberg, S.H.

(2005) Nature **435**: 677-681

PubMed: 15902208

DOI: 10.1038/nature03579

Primary Citation of Related Structures: 1YSG, 1YSI, 1YSN, 1YSW, 1YSX

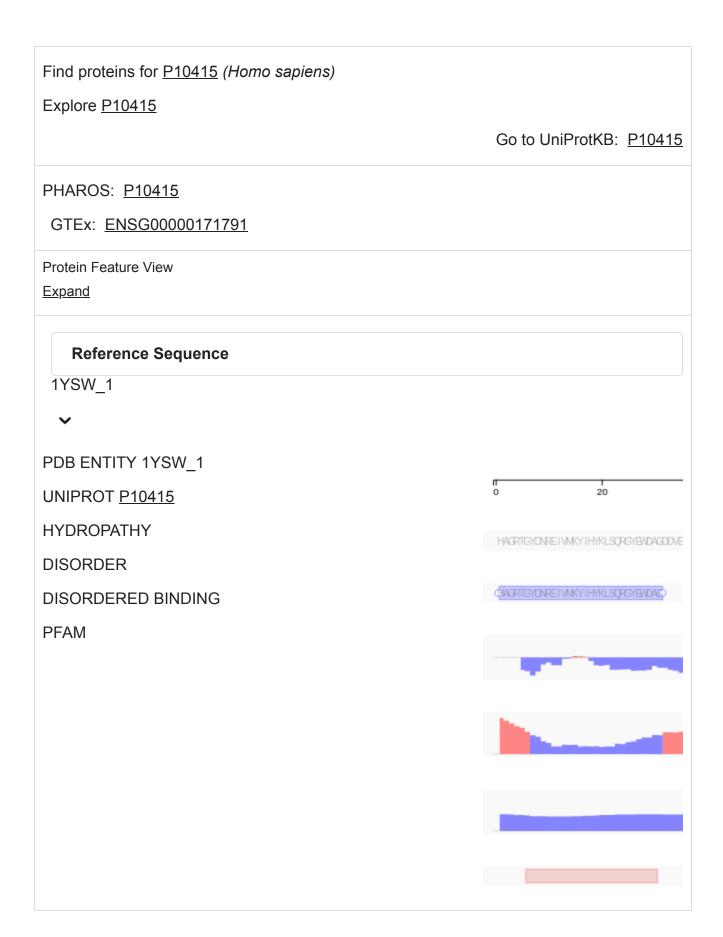
PubMed Abstract:

Macromolecules

Find similar proteins by:

(by identity cutoff) | 3<u>D Structure</u>

Entity ID: 1					
Molecule					
Chains					
Sequence Length					
Organism					
Details					
Image					
Apoptosis regulator Bcl- 2	Α	164	Homo sapiens	Mutation(s): 0 Gene Names: BCL2	
UniProt & NIH Co	ommo	on Fund	d Data Reso	ources	



Small Molecules

Ligands 1 Unique		
ID		
Chains		
Name / Formula / InChl Key		
2D Diagram		
3D Interactions		
43B (Subject of Investigation/LOI)	B [auth A]	3-NITRO-N-{4-[2-(2-PHENYLETHYL)-1,3-BENZOTHIAZOL-5-YL]BENZOYL}-4-{[2-(PHENYLSULFANYL)ETHYL]AMINO}BENZENESULFONAMIIC $C_{36} H_{30} N_4 O_5 S_3$ KYLSTDPZEIQYFX-UHFFFAOYSA-N

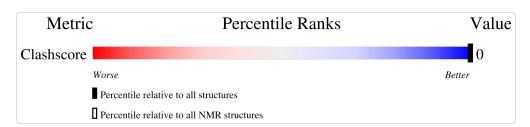
Experimental Data & Validation

Experimental Data

Method: SOLUTION NMR Conformers Submitted: 1 OLDERADO: 1YSW Olderado

Structure Validation

View <u>Full Validation Report</u>



Deposition Data

Deposited Date: 2005-02-09 **Released Date:** 2005-06-07

Deposition Author(s): Oltersdorf, T., Elmore, S.W., Shoemaker, A.R., Armstrong, R.C., Augeri, D.J., Belli, B.A., Bruncko, M., Deckwerth, T.L., Dinges, J., Hajduk, P.J., Joseph, M.K., Kitada, S., Korsmeyer, S.J., Kunzer, A.R., Letai, A., Li, C., Mitten, M.J., Nettesheim, D.G., Ng, S., Nimmer, P.M., O'Connor, J.M., Oleksijew, A., Petros, A.M., Reed, J.C., Shen, W., Tahir, S.K., Thompson, C.B., Tomaselli, K.J., Wang, B., Wendt, M.D., Zhang, H., Fesik, S.W., Rosenberg, S.H.

Revision History (Full details and data files)

• Version 1.0: 2005-06-07

Type: Initial release

• Version 1.1: 2008-04-30

Changes: Version format compliance

• Version 1.2: 2011-07-13

Changes: Version format compliance

• Version 1.3: 2022-03-02

Changes: Database references, Derived calculations