# **2XA0**



rcsb.org/structure/2xa0

### Biological Assembly 1



#### **Macromolecule Content**

• Total Structure Weight: 52.87 kDa

• Atom Count: 2733

• Modelled Residue Count: 326

• Deposited Residue Count: 476

• Unique protein chains: 2

# Crystal structure of BCL-2 in complex with a BAX BH3 peptide

**PDB DOI:** <u>10.2210/pdb2XAo/pdb</u>

**Classification: APOPTOSIS** 

Organism(s): <u>Homo sapiens</u>, <u>Mus musculus</u>

Expression System: Escherichia coli BL21(DE3)

Mutation(s): No

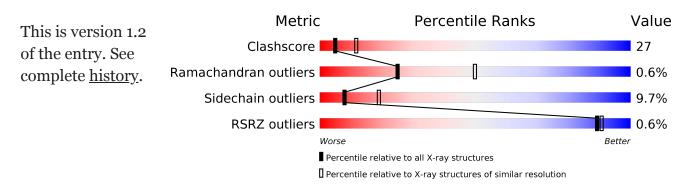
Deposited: 2010-03-25 Released: 2010-11-24

**Deposition Author(s):** <u>Ku, B., Oh, B.H.</u>

#### **Experimental Data Snapshot**

#### wwPDB Validation

<u>3D Report Full Report</u>



Evidence that Inhibition of Bax Activation by Bcl- 2 Involves its Tight and Preferential Interaction with the Bh3 Domain of Bax.

<u>Ku, B., Liang, C., Jung, J.U., Oh, B.H.</u> (2011) Cell Res **21**: 627

**DOI:** <u>10.1038/cr.2010.149</u>

Primary Citation of Related Structures:

<u>2XA0</u>

#### **PubMed Abstract:**

Macromolecules

Find similar proteins by:

(by identity cutoff) | 3D Structure

Entity ID: 1

Molecule Chains Sequence Length Organism Details **Image** 207 <u>A</u>, <u>B</u> <u>Homo</u> Mutation(s): **APOPTOSIS** REGULATOR <u>sapiens</u> BCL-2 Gene Names: BCL2 UniProt & NIH Common Fund Data Resources Find proteins for P10415 (Homo sapiens) Explore <u>P10415</u> Go to UniProtKB: P10415 PHAROS: <u>P10415</u> GTEx: ENSG00000171791

Protein Feature View

**Expand** 

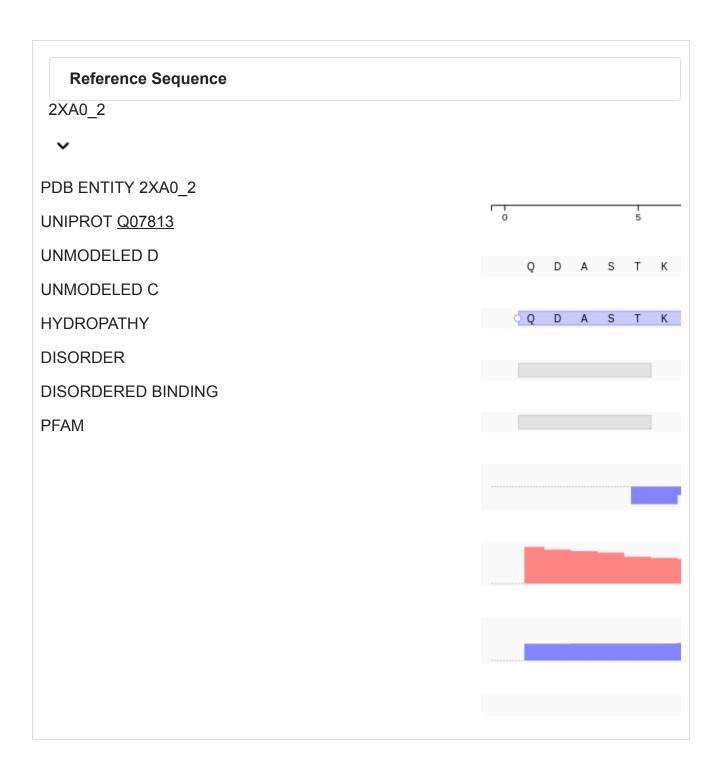


Find similar proteins by:

(by identity cutoff) | 3D Structure

Entity ID: 2

Molecule					
Chains					
Sequence Length					
Organism					
Details					
Image					
APOPTOSIS REGULATOR BAX	<u>C</u> , <u>D</u>	31	Mus musculus	Mutation(s): 0 Gene Names: <u>Bax</u>	
UniProt		ı			
Find proteins for Q Explore Q07813	0781	<u>3</u> (M	us musculus	s)	
					Go to UniProtKB: Q07813
Protein Feature View Expand					



Experimental Data & Validation

### **Experimental Data**

**Method:** X-RAY DIFFRACTION

Resolution: 2.70 Å R-Value Free: 0.242 R-Value Work: 0.222 R-Value Observed: 0.222

## Space Group: P 3, 21

#### **Unit Cell**:

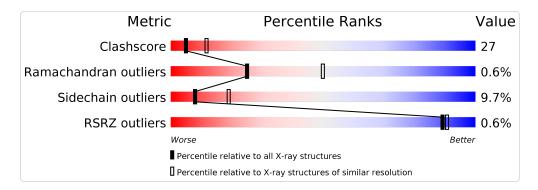
Length ( Å )	Angle (°)
a = 81.973	α = 90
b = 81.973	β = 90
c = 138.85	γ = 120

### **Software Package:**

Software Name	Purpose
CNS	refinement

#### **Structure Validation**

### View Full Validation Report



# **Entry History**

## **Deposition Data**

**Deposited Date:** 2010-03-25 **Released Date:** 2010-11-24

**Deposition Author(s):** <u>Ku, B., Oh, B.H.</u>

# Revision History (Full details and data files)

• Version 1.0: 2010-11-24

Type: Initial release

• Version 1.1: 2011-05-26

Changes: Version format compliance

• Version 1.2: 2011-07-13

Changes: Version format compliance