

Bcl-XL Active Protein | BCL2L1 active protein

Bcl-XL Protein, Mouse, Recombinant (aa 1-212, His Tag)

CATALOG #
AAA258116

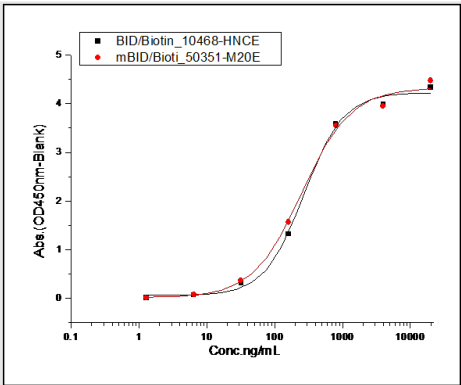
HOST
E Coli

PRODUCT SYNONYMS

Bcl-XL; Bcl-XL Protein; Mouse; Recombinant (aa 1-212; His Tag); Mouse BCL2L1/Bcl-XL Protein (aa 1-212; Bcl(X)L Protein; bcl-x Protein; bcl2-L-1 Protein; Bcl2l Protein; BclX Protein; BCL2-like 1; BCL2L1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.5. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Arg21 2
Species	Mouse
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human BID at 10ug/mL (100uL/well) can bind biotinylated mouse BCL2L1. The EC50 of biotinylated mouse BCL2L1 is 5.6ng/mL. 3. Immobilized mouse BID at 10ug/mL (100uL/well) can bind biotinylated mouse BCL2L1. The EC50 of biotinylated mouse BCL2L1 is 7.1ng/mL.
Predicted N Terminal	Met 1
Tag	C-His
Protein Construction	A DNA sequence encoding the mouse BCL2L1 (Q64373-1)(Met 1-Arg 212) was expressed, with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. 1. Immobilized human BID at 10 ug/mL (100 ul/well) can bind biotinylated mouse BCL2L1. The EC50 of biotinylated mouse BCL2L1 is 5.6 ng/mL. 2. Immobilized mouse BID at 10 ug/mL (100 ul/well) can bind biotinylated mouse BCL2L1. The EC50 of biotinylated mouse BCL2L1 is 7.1 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for BCL2L1 active protein	Background: B-cell lymphoma-extra large (Bcl-xl) is a transmembrane molecule in the mitochondria. Bcl-xL (BCL2L1), belongs to the Bcl-2 family. Members of the bcl-2 family encode proteins that function either to promote or to inhibit apoptosis. Antiapoptotic members such as Bcl-2 and Bcl-xL prevent PCD in response to a wide variety of stimuli to take part in cancer survival. Conversely, proapoptotic proteins, exemplified by Bax and Bak, can accelerate death and in some instances are sufficient to cause apoptosis independent of additional signals. The crystal and solution structures of a Bcl-2 family member, Bcl-xL is like this: The structures consist of two central, primarily hydrophobic alpha-helices, which are surrounded by amphipathic helices. A 60-residue loop connecting helices alpha1 and alpha2 was found to be flexible and non-essential for anti-apoptotic activity. Bcl-xL is characterized as an important factor in autophagy, inhibiting Beclin 1-mediated autophagy by binding to Beclin 1. In addition, Beclin 1, Bcl-2 and Bcl-xL can cooperate with Atg5 or Ca ²⁺ to regulate both autophagy and apoptosis. Bcl-xL is also implicated in anoxia induced cell death. The pathway is initiated by the loss of function of the prosurvival Bcl-2 family members Mcl-1 and Bcl-2/Bcl-XL, resulting in Bax- or Bak-dependent release of cytochrome c and subsequent caspase-9-dependent cell death. Thus, Bcl-xL, the well-characterized apoptosis guards, appears to be important in cell death.
Product Categories/Family for BCL2L1 active protein	Death Receptor Signaling
References	Vander Heiden MG, et al. (1997) Bcl-xL Regulates the Membrane Potential and Volume Homeostasis of Mitochondria. Cell. 91 (5): 627-37. Muchmore SW, et al. (1996) X-ray and NMR structure of human Bcl-xL, an inhibitor of programmed cell death. Nature. 381: 335-341. Sharoff EH, et al. (2007) Bcl-2 family members regulate anoxia-induced cell death. Antioxid Redox Signal. 9 (9): 1405-9. Zhou F, et al. (2011) Bcl-2 and Bcl-xL play important roles in the crosstalk between autophagy and apoptosis. FEBS J. 278 (3): 403-13.

NCBI AND UNIPROT INFORMATION

NCBI GI #	577019442
NCBI GeneID	12048
NCBI Accession #	NP_001276645.1
NCBI GenBank Nucleotide #	NM_001289716.1
UniProt Accession #	Q64373; O35844; Q60657; Q60658; Q61338
Molecular Weight	23,900 Da
NCBI Official Full Name	bcl-2-like protein 1 isoform a
NCBI Official Synonym Full Names	BCL2-like 1

NCBI Official Symbol	Bcl2l1
NCBI Official Synonym Symbols	BclX; Bcl2l; bcl-x; Bcl-XL; Bcl(X)L; bcl2-L-1
NCBI Protein Information	bcl-2-like protein 1
UniProt Protein Name	Bcl-2-like protein 1
UniProt Gene Name	Bcl2l1
UniProt Synonym Gene Names	Bcl2l; Bclx; Bcl2-L-1
UniProt Entry Name	B2CL1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-bcl2l1-active-protein/bcl-xl/258116>