

Bcl-2 Active Protein | BCL2 active protein

Bcl-2 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257842

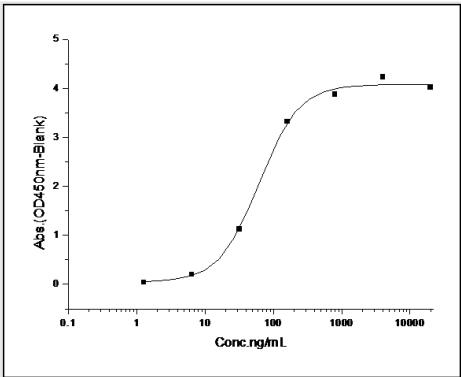
HOST
E Coli

PRODUCT SYNONYMS

Bcl-2; Bcl-2 Protein; Human; Recombinant (His Tag); Human BCL2/Bcl-2 Protein (His Tag); PPP1R50 Protein; B-cell CLL/lymphoma 2; BCL2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 20% glycerol, 100mM Arg, pH8.5. 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-Asp21 1
Species	Human
Predicted N Terminal	Met 1
Tag	C-His
Protein Construction	A DNA sequence encoding the human BCL2 isoform 1 (P10415-1)(Met 1-Asp 211) was expressed, with a polyhistide tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized human BCL2-His at 10ug/ml (100uL/well) can bind biotinylated mouse BCL2L1-His. The EC50 of biotinylated mouse BCL2L1-His is 0.07-0.15ug/ml.
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. Immobilized human BCL2-His at 10 ug/ml (100 ul/well) can bind biotinylated mouse BCL2L1-His, The EC50 of biotinylated mouse BCL2L1-His is 0.07-0.15 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for BCL2 active protein	Background: BCL2 (B-cell leukemia/lymphoma 2, N-Histidine-tagged), also known as Bcl-2, belongs to the Bcl-2 family. Bcl-2 family proteins regulate and contribute to programmed cell death or apoptosis. It is a large protein family and all members contain at least one of four BH (bcl-2 homology) domains. Certain members such as Bcl-2, Bcl-xl and Mcl1 are anti-apoptotic, whilst others are pro-apoptotic. Most Bcl-2 family members contain a C-terminal transmembrane domain that functions to target these proteins to the outer mitochondrial and other intracellular membranes. It is expressed in a variety of tissues. BCL2 blocks the apoptotic death of some cells such as lymphocytes. It also regulates cell death by controlling the mitochondrial membrane permeability and inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. Two transcript variants, produced by alternate splicing, differ in their C-terminal ends.
Product Categories/Family for BCL2 active protein	Cancer Drug Targets; Death Receptor Signaling
References	Tsujimoto Y, et al. (1984) Cloning of the chromosome breakpoint of neoplastic B cells with the t(14;18) chromosome translocation. Science. 226(4678):1097-99. Cleary ML, et al. (1986) Cloning and structural analysis of cDNAs for bcl-2 and a hybrid bcl-2/immunoglobulin transcript resulting from the t(14;18) translocation. Cell. 47(1):19-28. Otake Y, et al. (2007) Overexpression of nucleolin in chronic lymphocytic leukemia cells induces stabilization of Bcl-2/Bcl-2 mRNA. Blood. 109(7):3069-75.

NCBI AND UNIPROT INFORMATION

NCBI GI #	72198189
NCBI GeneID	596
NCBI Accession #	NP_000624.2
NCBI GenBank Nucleotide #	NM_000633.2
UniProt Accession #	P10415; P10416; Q13842; Q16197
Molecular Weight	26,266 Da
NCBI Official Full Name	apoptosis regulator Bcl-2 alpha isoform
NCBI Official Synonym Full Names	B-cell CLL/lymphoma 2
NCBI Official Symbol	BCL2
NCBI Official Synonym Symbols	Bcl-2; PPP1R50

NCBI Protein Information	apoptosis regulator Bcl-2; protein phosphatase 1, regulatory subunit 50
UniProt Protein Name	Apoptosis regulator Bcl-2
UniProt Gene Name	BCL2
UniProt Entry Name	BCL2_HUMAN

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://www.aaabiotech.com/e-coli-bcl2-active-protein/bcl-2/257842>