

Active BCL2-Like 1 Protein, human recombinant

CATALOG NO. :	7885-10	10 µg
	7885-50	50 µg
ALTERNATE NAMES:	Bcl-2-like protein 1, Bcl2-L-1, Bcl-X, BCL2L1, BCL2L, BCLX, Bcl-Xs	
SOURCE:	E. coli (Met 1 - Arg 212)	
PURITY:	>92% by SDS-PAGE.	
MOL. WEIGHT:	24.6 kDa with 6xHis tag at the C-terminus while DTT-reduced Protein migrates as 26 kDa.	
ENDOTOXIN LEVEL:	< 1.0 EU/µg of the protein by the LAL method.	
FORM:	Lyophilized	

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.

STORAGE CONDITIONS: Store at 4°C for 1 year in lyophilized. After reconstitution, aliquot and store at -70°C for up to 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a stock solution of 200 µg/mL. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage.

DESCRIPTION: Potent inhibitor of cell death. Inhibits activation of caspases. Appears to regulate cell death by blocking the voltage-dependent anion channel (VDAC) by binding to it and preventing the release of the caspase activator, CYC1, from the mitochondrial membrane. Also acts as a regulator of G2 checkpoint and progression to cytokinesis during mitosis. Isoform Bcl-X(L) also regulates presynaptic plasticity, including neurotransmitter release and recovery, number of axonal mitochondria as well as size and number of synaptic vesicle clusters. During synaptic stimulation, increases ATP availability from mitochondria through regulation of mitochondrial membrane ATP synthase F1F0 activity and regulates endocytic

vesicle retrieval in hippocampal neurons through association with DMN1L and stimulation of its GTPase activity in synaptic vesicles. Isoform Bcl-X(S) promotes apoptosis.

BIOLOGICAL ACTIVITY: Measured by its ability to bind human BID protein in a functional ELISA.



RELATED PRODUCTS:

- BCL-2 Inhibitor, ABT-199 (Cat No. 2253-1, -5)
- Bcl-2 Antibody (Cat No. 3033-100)
- Bcl-2 Antibody (Clone Bcl-2/100) (Cat No. 3195-100)
- pGB Bcl-2 siRNA Vector Mix (Cat No. 9514-20, -60)
- Bad Antibody (Cat. No. 3005-100)
- Bnip3L/Nix Antibody (Cat No.3205-100)

FOR RESEARCH USE ONLY! Not to be used in humans.