Recombinant Human BCL2-Like 1

Cat. No. BCL2L1-470H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanBCL-X (BCL2-LIKE 1, BCL2L1, BCL2-related gene, BCLX BCL2-related protein) cloned from human cDNA was expressed in*E. coli*. It consists of the BCL-X protein without the C-term trans-membrane region, aa 1-209. Four additional residues, GSFT are present at N-Term of the protein. Swissprot accession Q07817. MW = 23.7 kDa.
Species	Human
Source	E.coli
ProteinLength	1-209 a.a.
Description	Bcl-2-like protein 1 is a protein that in humans is encoded by the BCL2L1 gene.The protein encoded by this gene belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The proteins encoded by this gene are located at the outer mitochondrial membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are the potent inducers of cell apoptosis. Two alternatively spliced transcript variants, which encode distinct isoforms, have been reported. The longer isoform acts as an apoptotic inhibitor and the shorter form acts as an apoptotic activator.

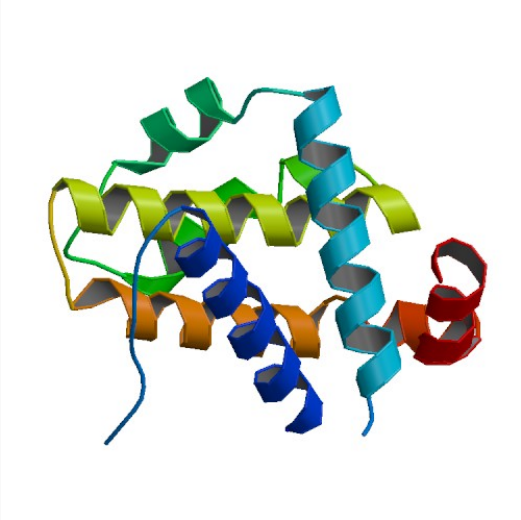
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Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating at molecular weight >20 kDa.
Supplied As	0.5 mg/ml Tris 20mM pH 7.5, NaCl 150mM, DTT 1mM, EDTA 0.5mM.. The concentration is calculated from the absorbance at 280nm (e280 = 41940 M-1 cm-1).
Characteristics	Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 0.1mM.
Storage	-80ºC. The protein is stable at 4 ºC for at least 2 days and at 25 ºC for at least several hours. After initial defrost, aliquot product into individual tubes and refreeze at -80º C. Avoid repeated freeze/defrost cycles.

GENE INFORMATION

Gene Name	BCL2L1 BCL2-like 1 [Homo sapiens]
Synonyms	BCL2L1; BCL2-like 1; BCLX; BCL2L; Bcl-X; bcl-xL; bcl-xS; BCL-XL/S; DKFZp781P2092; OTTHUMP00000030550; Bcl-2-like protein 1; Bcl2-L-1; Apoptosis regulator Bcl-X; OTTHUMP00000030551; OTTHUMP00000030553; bcl-xL; bcl-xS; Apoptosis regulator Bcl-X
Gene ID	598
mRNA Refseq	NM_001191
Protein Refseq	NP_001182
MIM	600039
UniProt ID	Q07817

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Chromosome Location	20q11.21
Pathway	Amyotrophic lateral sclerosis (ALS); Apoptosis; Chronic myeloid leukemia; Jak-STAT signaling pathway; Pancreatic cancer; Pathways in cancer; Small cell lung cancer; Apoptosis
Function	caspase inhibitor activity; identical protein binding; protein heterodimerization activity
PDB rendering based on 1af3.	

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