

Recombinant Human BCL2L1 Protein

Cat. No. BCL2L1-3321H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BCL2L1 Protein is produced by E. coli expression system.
Species	Human
Source	E.coli
Description	Bcl-X, also named as BCL2L1 or BCL2L, belongs to the Bcl-2 family and it is encoded by the BCL2L1 gene in human. Alternative splicing of Bcl-X results in at least two isoforms, isoform Bcl-X(L) (also named as Bcl-xL) and isoform Bcl-x(S) (also named as Bcl-xS). Bcl-xL is found in tissues containing long-lived postmitotic cells, such as adult brain, while Bcl-xS is expressed at high levels in cells that undergo a high rate of turnover, such as developing lymphocytes. Bcl-X forms homodimer or heterodimer with other Bcl-2 proteins, like BAK, BAX or Bcl-2, to act as anti- or pro- apoptotic regulators. Bcl-xL 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, and it also acts as a regulator of G2 checkpoint and progression to cytokinesis during mitosis. In contrast, Bcl-xS is a pro-apoptotic protein that promotes apoptosis.
Form	Lyophilized from a 0.2 um filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 5 % Trehalose.
Molecular Mass	23.7 kDa
AA Sequence	SQSNRELVVD FLSYKLSQKG YWSQFSDVE ENRTEAPEGT ESEMETPSAI

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NGNPSWHLAD SPAVNGATGH SSSLDAREVI PMAAVKQALR EAGDEFELRY
 RRAFSDLTSQ LHITPGTAYQ SFEQVVELNF RDGVNWGRIV AFFSFGGALC
 VESVDKEMQV LVSRIAAMWA TYLNDHLEPW IQENGGWDTF VELYGNNAAA
 ESRKGQERFN R

Endotoxin < 0.1 EU/ug of endotoxin as determined by LAL method.

Purity > 97 % pure by SDS-PAGE and HPLC

Notes This lyophilized preparation is stable at 2-8 degrees C, but should be kept at -20 degrees C for long term storage, preferably desiccated. Upon reconstitution, the preparation is most stable at -20 to -80 degrees C, and can be stored for one week at 2-8 degrees C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 degrees C to -80 degrees C. Avoid repeated freeze/thaw cycles. This product is for research use only and is not approved for use in humans or in clinical diagnosis.

Storage Store at -20 centigrade. Avoid freeze-thaw cycles.

Concentration LYOPH

Preservative 5% Trehalose

Reconstitution Reconstitute with sterilized distilled water or 0.1% BSA aqueous buffer to a final concentration of 0.1 - 1.0 mg/ml.

GENE INFORMATION

Gene Name BCL2L1 BCL2-like 1 [Homo sapiens]

Official Symbol BCL2L1

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Synonyms	BCL2L1; BCL2-like 1; Bcl X; bcl xL; bcl xS; BCL2L; BCLX; PPP1R52; BCLXL; BCLXS; Bcl-X; bcl-xL; bcl-xS; BCL-XL/S; DKFZp781P2092;
Gene ID	598
mRNA Refseq	NM_001191
Protein Refseq	NP_001182
MIM	600039
UniProt ID	Q07817
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