

Recombinant Human B-cell CLL/lymphoma 2, His-tagged

Cat. No. BCL2-509H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bcl2 protein was expressed in <i>E.coli</i> and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. MW = 25.4 kDa (231 aa).
Species	Human
Source	<i>E.coli</i>
Description	Bcl2, also known as B-cell lymphoma protein 2 alpha, is an anti-apoptotic protein located primarily in the outer mitochondrial membrane that blocks the apoptotic death of some cells such as lymphocytes. BCL2 is thought to regulate cell death by controlling the mitochondrial membrane permeability during apoptosis. Bcl2 exerts its anti-apoptotic function through inhibiting caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1). The Bcl2 gene has been related with a number of cancers, including melanoma, breast, prostate, and lung carcinomas, as well as schizophrenia and autoimmunity.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAHAGRTGYD NREIVMKYIH YKLSQRGYEW DAGDVGAAPP GAAPAGIFS SQPGHTPHPA ASRDPVARTS PLQTPAAPGA AAGPALSPVP PVVHLTLRQA GDDFSRRYRR DFAEMSSQLH LTPFTARGRF ATVVEELFRD GVNWGRIVAF FEGGVMCVE SVNREMSPLV DNIALWMTEY LNRHLHTWIQ DNGGWDAFVE LYGPSMRPLFD.

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Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 20% glycerol 2 Mm DTT.
Purity	> 90% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	BCL2 B-cell CLL/lymphoma 2 [Homo sapiens]
Synonyms	Bcl-2; OTTHUMP00000163680; BCL2; B-cell CLL/lymphoma 2; B-cell lymphoma protein 2
Gene ID	596
mRNA Refseq	NM_000633
Protein Refseq	NP_000624
MIM	151430
UniProt ID	P10415
Chromosome Location	18q21.33; 18q21.3
Pathway	Amyotrophic lateral sclerosis (ALS); Apoptosis; Colorectal cancer; Focal adhesion; Neurotrophin signaling pathway; Pathways in cancer; Prostate cancer; Small cell lung

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cancer

Function

BH3 domain binding; Protease binding; Protein Heterodimerization activity; Protein homodimerization activity; Transcription activator activity; Transcription factor binding

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