

Recombinant Human (minus BH1 domain) B-Cell CLL/Lymphoma 2, His-tagged

Cat. No. BCL2-4221H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Bcl-2 Des BH1 domain (136-155 residues) Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containg 198 amino acids 1-135 and 156-218. The Bcl-2 is expressed as His-Tag fusion protein and purified by proprietary chromatographic techniques.
Species	Human
Source	Human (minus BH1 domain)
ProteinLength	136-155;156-218 a.a.
Description	BCL2 gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. 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.
Form	The protein contains 10mM Tris-HCL pH-8, 1mM EDTA and 250mM NaCl.
Purity	Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.

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Solubility Suspend Bcl-2 in 100?l of 0.5M Acetic acid, over night at 4°C. Dilute 10 fold into selected buffer system. BCL-2 has tendency to form intramolecular disulfide bond, 5mM DTT is recommended in assay buffer. When running SDS-PAGE gel, 10mM DTT is recommended.

Storage Lyophilized Bcl-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Bcl-2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name BCL2 B-cell CLL/lymphoma 2 [Homo sapiens]

Official Symbol BCL2

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

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Pathway Amyotrophic lateral sclerosis (ALS); Apoptosis; Colorectal cancer; Focal adhesion; Neurotrophin signaling pathway; Pathways in cancer; Prostate cancer; Small cell lung cancer

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

PDBrendering based on 1GJH,1G5M.

