

Recombinant Human B-Cell CLL/Lymphoma 2, His-tagged

Cat. No. BCL2-5289H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BCL2 with His Tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Recombinant full length human BCL2 is a single, non-glycosylated polypeptide chain containing amino acids 1-206. The wild type BCL2 is missing 12 amino acids from the C-terminus. The C-terminus is fused to a His-Tag. The C-terminus His-tag mimics the deleted C-terminus membrane domain thus maintaining its biological activity.
Form	Lyophilized from a sterile filtered solution containing 10 mM Tris-HCl, pH 8.0 + 1 mM EDTA + 250mM NaCl.
Purity	> 95% as determined by RP-HPLC and SDS-PAGE analyses.
Endotoxin Level	< 0.1 ng/g of BCL2
Reconstitution	Centrifuge vial prior to opening. Suspend BCL2 in 100 µl of 0.5M Acetic acid, overnight at 2-4°C. Dilute 10 fold into selected buffer system. Because BCL2 has a tendency to form intramolecular disulfide bond, 5 mM DTT is recommended in assay buffer. When running SDS-PAGE gel, 10 mM DTT is recommended.
Storage	Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week

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at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.

Official Symbol BCL2

GENE INFORMATION

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

Synonyms BCL2; B-cell CLL/lymphoma 2; Bcl-2; PPP1R50; apoptosis regulator Bcl-2; protein phosphatase 1, regulatory subunit 50

Gene ID 596

mRNA Refseq NM_000633

Protein Refseq NP_000624

MIM 151430

UniProt ID P10415

Chromosome Location 18q21.33; 18q21.3

Pathway ATF-2 transcription factor network; Activation of BAD and translocation to mitochondria; Activation of BH3-only proteins; Amyotrophic lateral sclerosis (ALS); Apoptosis; B Cell Receptor Signaling Pathway; BH3-only proteins associate with and inactivate anti-apoptotic BCL-2 members; Caspase cascade

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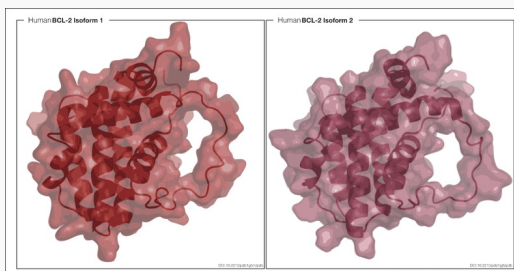
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inapoptosis; Cholinergic synapse; Colorectal cancer; RXR and RARheterodimerization with other nuclear receptor; Small cell lung cancer; TheNLRP1 inflammasome; Toxoplasmosis; Tuberculosis

Function

BH3 domain binding;channel activity; identical protein binding; protease binding; proteinbinding; protein heterodimerization activity; protein homodimerizationactivity; protein phosphatase 2A binding; sequence-specific DNA binding;transcription factor binding; ubiquitin protein ligase binding

PDB rendering
basedon
1GJH,1G5M.



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