

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

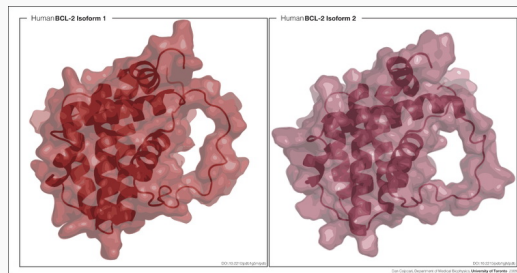
 45-1 Ramsey Road, Shirley, NY 11967, USA

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.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA