Recombinant Human BCL2/Bcl-2 Protein (His Tag)

Catalog No. PKSH031777

Note: Centrifuge before opening to ensure complete recovery of vial contents.

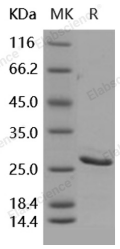
Description

Synonyms	Apoptosis regulator Bcl-2;BCL2;Apoptosis Regulator Bcl-2;B-cell Lymphoma 2;PPP1R50
Species	Human
Expression Host	E.coli
Sequence	Met 1-Asp 211
Accession	P10415-1
Calculated Molecular Weight	24.7 kDa
Observed molecular weight	32 kDa
Tag	C-His
Bioactivity	Immobilized human BCL2-His at 10 μg/ml (100 μl/well) can bind biotinylated mouse BCL2L1-His, The EC50 of biotinylated mouse BCL2L1-His is 0.07-0.15 μg/ml.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50mM Tris, 20% glycerol, 100mM Arg, pH 8.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

BCL2 (B-cell leukemia/lymphoma 2, N-Histidine-tagged), also known as Bcl-2, belongs to the Bcl-2 family. Bcl-2 family proteins regulate and contribute to programmed cell death or apoptosis. It is a large protein family and all members contain at least one of four BH (bcl-2 homology) domains. Certain members such as Bcl-2, Bcl-xl and Mcl1 are anti-apoptotic, whilst others are pro-apoptotic. Most Bcl-2 family members contain a C-terminal transmembrane domain that functions to target these proteins to the outer mitochondrial and other intracellular membranes. It is expressed in a variety of tissues. BCL2 blocks the apoptotic death of some cells such as lymphocytes. It also regulates cell death by controlling the mitochondrial membrane permeability and inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor. 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.

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