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

Catalog Number:PKSH033761

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	Met1-Asp211
Accession	P10415
Calculated Molecular Weight	24.1 kDa
Observed molecular weight	23-27 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at< -20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM HEPES, 150mM NaCl, 10%Glycerol, pH8.0.
Reconstitution	Not Applicable

Data
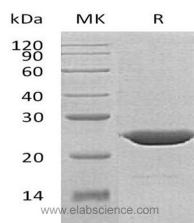
Background

Bcl-2 is a member of a family of proteins that regulates outer mitochondrial membrane permeability. Bcl-2 is an antiapoptotic member that prevents release of cytochrome c from the mitochondria intermembrane space into the cytosol. Bcl-2 is present on the outer mitochondrial membrane and is also found on other membranes in some cell types. BCL-2 is localized to the outer membrane of mitochondria,where it plays an important role in promoting cellular survival and inhibiting the actions of pro-apoptotic proteins. The pro-apoptotic proteins in the BCL-2 family, including Bax and Bak, normally act on the mitochondrial membrane to promote permeabilization and release of cytochrome C and ROS, that are important signals in the apotosis cascade. These pro-apoptotic proteins are in turn activated by BH3-only proteins, and are inhibited by the function of BCL-2 and its relative BCL-Xl.

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