

# Recombinant human Bcl-2 protein

Catalog Number: ATGP0297

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-211aa

### UniProt No.

P10415

### NCBI Accession No.

NP\_000624

### Alternative Names

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

## PRODUCT SPECIFICATION

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### Molecular Weight

25.4 kDa (231aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 2mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Bcl-2, also known as B-cell lymphoma protein 2 alpha, is an anti-apoptotic protein located primarily in the outer mitochondrial membrane that blocks the apoptotic death of some cells such as lymphocytes. BCL-2 is thought to regulate cell death by controlling the mitochondrial membrane permeability during apoptosis. Bcl-2 exerts its anti-apoptotic function through inhibiting caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1). The Bcl-2 gene has been related with a number of cancers, including melanoma, breast, prostate, and lung carcinomas, as well as schizophrenia and

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autoimmunity. Recombinant Bcl-2 protein was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MAHAGRTGYD NREIVMKYIH YKLSQRGYEW DAGDVGAAPP GAAPAGIFS SQPGHTPHPA  
ASRDPVARTS PLQTPAAPGA AAGPALSPVP PVVHLTLRQA GDDFSRRYRR DFAEMSSQLH LTPFTARGRF ATVVEELFRD  
GVNWGRIVAF FEEGGVMCVE SVNREMSPLV DNIALWMTEY LNRHLHTWIQ DNGGWDAFVE LYGPSMRPLF D

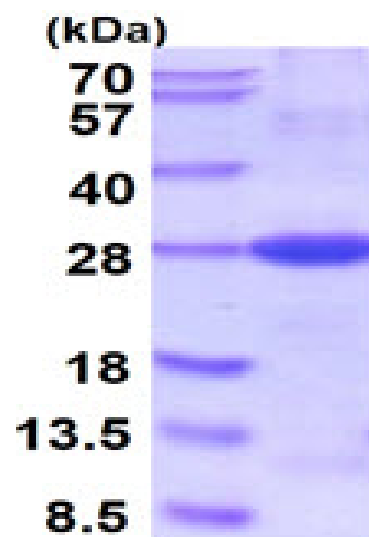
## General References

Zamzami N., et al. (1998) Oncogene. 16(17):2265-82.

Fernandez-Sarabia MJ., et al. (1993) Nature. 366(6452):274-5.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)