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# Certificate of Analysis and Data Sheet

## Recombinant Human B-Cell Leukemia / Lymphoma 2 (minus BH1 domain)

**Catalog No.**  
228-10098

**Source:**  
*Escherichia coli.*

### **Synonyms:**

Apoptosis regulator Bcl-2, BCL2, B-cell CLL/lymphoma 2, Bcl-2.

### **Introduction:**

BCL2 gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. 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.

### **Description:**

Bcl-2 Des BH1 domain (136-155 residues) Human Recombinant produced in E. coli is a single, non-glycosylated polypeptide chain containing 198 amino acids 1-135 and 156-218.

The Bcl-2 is expressed as His-Tag fusion protein and purified by proprietary chromatographic techniques.

### **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

### **Formulation:**

The protein contains 10mM Tris-HCL pH-8, 1mM EDTA and 250mM NaCl.

### **Solubility:**

Suspend Bcl-2 in 100μl of 0.5M Acetic acid, over night at 4°C.

Dilute 10 fold into selected buffer system.

BCL-2 has tendency to form intramolecular disulfide bond, 5mM DTT is recommended in assay buffer.

When running SDS-PAGE gel, 10mM DTT is recommended.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Stability:***

Lyophilized Bcl-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Bcl-2 should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### ***Purity:***

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### ***Applications***

Input marker or positive control (Western Blotting).

Function study.

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