

## PrimeGene Technical Data Sheet

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<b>Catalog Number:</b>	601-45
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 23.2 kDa, a single non-glycosylated polypeptide chain containing 210 amino acids.
<b>Quantity:</b>	5µg/20µg/1000µg
<b>AA Sequence:</b>	AHAGRTGYDN REIVMKYIHY KLSQRGYEWG AGDVGAAPPG AAPAPGIFSS QPGHTPHPAA SRDPVARTSP LQTPAAPGAA AGPALSPPVP VVHLTLRQAG DDFSRRYRRD FAEMSSQLHL TPFTARGRFA TVVEELFRDG VNWGRIVAFF EFGGVMCVES VNREMSPLVD NIALWMTEYL NRHLHTWIQD NGGWDAFVEL YGPSMRPLFD
<b>Purity:</b>	> 95 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Test in Process.
<b>Physical Appearance:</b>	Sterile liquid.
<b>Formulation:</b>	0.2 µm filtered concentrated solution in 25 mM Tris-HCl, pH 8.0, 100mM NaCl, 1 mM DTT, 30 % Glycerol, with Tween-80.
<b>Endotoxin:</b>	Less than 0.1 EU/µg of rHuBcl-2 as determined by LAL method.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 6 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 3 months, -20 to -70 °C under sterile conditions after opening.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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### ***Human B-cell Lymphoma 2***

B-cell lymphoma 2 (Bcl-2) is the founding member of the Bcl-2 family and it is encoded by the BCL2 gene in human. Bcl-2 forms homodimer and heterodimers with other Bcl-2 family proteins, like BAX, BAK, BAD and Bcl-xL. Alternative splicing of Bcl-2 results in two isoforms with similar folds despite differences in anti-apoptotic activity. Bcl-2 suppresses apoptosis by controlling the mitochondrial membrane permeability. It inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1). Antibodies to Bcl-2 can be used with immunohistochemistry to identify cells containing the antigen. In some cases, the presence or absence of Bcl-2 staining in biopsies may be significant for the patient's prognosis or likelihood of cancer relapse. Mature human Bcl-2 shares 88 % - 90 % amino acid sequence identity with murine, rat, bovine, canine Bcl-2.