

## Recombinant Mouse BCL2-associated X Protein

Cat. No. Bax-244M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Bax produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain. The Mouse Bax contains 133 (38-171) amino acids. The Mouse Bax is purified by proprietary chromatographic techniques.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	38-171 a.a.
<b>Description</b>	The Bcl-2-associated X protein, or Bax is a protein of the Bcl-2 gene family. It promotes apoptosis by competing with Bcl-2. Bax is a pro-apoptotic Bcl-2 protein containing BH1, BH2 and BH3 domains. In healthy mammalian cells, the majority of BAX is found in the cytosol, but upon initiation of apoptotic signaling, Bax undergoes a conformation shift, and inserts into organelle membranes, primarily the outer mitochondrial membrane. Bax is believed to interact with, and induce the opening of the mitochondrial voltage-dependent anion channel, VDAC. Alternatively, growing evidence suggests that activated Bax and/or Bak form an oligomeric pore, MAC in the outer membrane. This results in the release of cytochrome c and other pro-apoptotic factors from the mitochondria often referred to as mitochondrial outer membrane permeabilization, leading to activation of caspases.
<b>Physical Appearance</b>	Sterile Filtered colorless solution.
<b>Purity</b>	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by

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	reducing and non-reducing SDS-PAGE Silver Stained gel.
<b>Formulation</b>	The protein, 200g/ml contains 10mM Tris-HCL pH-8, 1mM EDTA and 250mM NaCl.
<b>Other Available Varients</b>	Recombinant Mouse BID, Recombinant Mouse tBID, Recombinant Mouse GST-BID Recombinant Mouse GST-Bax, Recombinant Mouse GST-Bax BH1, Recombinant Mouse GST-Bax BH2, Recombinant Mouse GST-Bax BH3, Recombinant Mouse GST-Bax IGDE, Recombinant Mouse GST-Bax D/A in IGDE.
<b>Endotoxin</b>	It is less than 0.1 ng/g of rmBax.
<b>Applications</b>	Input marker or positive control (Western Blotting). Function study (binding assay).
<b>Stability</b>	The rMuBax although stable at 12°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	Bax BCL2-associated X protein [ <i>Mus musculus</i> ]
<b>Synonyms</b>	Bax; BCL2-associated X protein
<b>Gene ID</b>	12028
<b>mRNA Refseq</b>	NM_007527
<b>Protein Refseq</b>	NP_031553
<b>UniProt ID</b>	Q07813
<b>Chromosome</b>	7 B5; 7 23.0 cM

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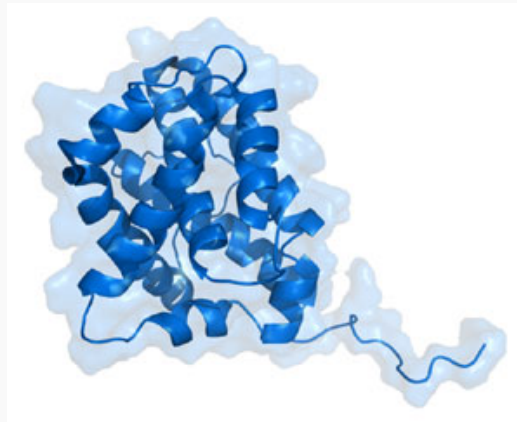
**Location****Pathway**

Amyotrophic lateral sclerosis (ALS); Apoptosis; Colorectal cancer; Huntington's disease; Huntington's disease; Neurotrophin signaling pathway; Pathways in cancer; p53 signaling pathway; Prion diseases

**Function**

BH3 domain binding; protein binding; protein heterodimerization activity

Based on PDB id  
1F16.



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