

Recombinant Mouse BCL2-associated X Protein

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	E.coli
Protein Length	38-171 a.a.
Description	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 proper. 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.
Physical Appearance	Sterile Filtered colorless solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

GENE INFORMATION

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