

# Recombinant Full Length Human BAX Protein, C-Flag-tagged

Cat. No. BAX-1216HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human BAX Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	The protein encoded by this gene belongs to the BCL2 protein family. BCL2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. This protein forms a heterodimer with BCL2, and functions as an apoptotic activator. The association and the ratio of BAX to BCL2 also determines survival or death of a cell following an apoptotic stimulus. This protein is reported to interact with, and increase the opening of, the mitochondrial voltage-dependent anion channel (VDAC), which leads to the loss in membrane potential and the release of cytochrome c. The expression of this gene is regulated by the tumor suppressor P53 and has been shown to be involved in P53-mediated apoptosis. Multiple alternatively spliced transcript variants, which encode different isoforms, have been reported for this gene.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	21 kDa
<b>AA Sequence</b>	MDGSGEQPRGGGPTSSEQIMKTGALLLQGFQDRAGRMGGEAPELALDPVPQDAS TKKLSECLKRIGDEL DSNMELQRMIAAVDTDSPREFFRVAADMFS DGNFNWGRV

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VALFYFASKLVLKALCTKVPELIRTIMGWT  
 LDFLRERLLGWIQDQGGWDGLLSYFGTPTWQTVTIFVAGVLTASLTIWKKMGTRTR  
 PLEQKLISEEDLAANDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Huntington's disease, Neurotrophin signaling pathway, p53 signaling pathway, Pathways in cancer, Prion diseases
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	BAX BCL2 associated X, apoptosis regulator [ Homo sapiens (human) ]
<b>Official Symbol</b>	BAX
<b>Synonyms</b>	BCL2L4

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Gene ID	581
mRNA Refseq	NM_138761.4
Protein Refseq	NP_620116.1
MIM	600040
UniProt ID	Q07812

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