Recombinant Human BAD, GST-tagged

Cat. No. BAD-6973H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human BAD was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	BAD is a member of the BCL-2 family of proteins that are known to be regulators of programmed cell death. BAD is a pro-apoptotic protein that forms a heterodimer complex with BCL-xL and BCL-2 which reverses the prosurvival activity of these proteins. The proapoptotic activity of BAD is regulated through its phosphorylation and this inhibits the pro-apoptosis function of BAD. Protein kinases such as AKT, RAF and RSK1 can phosphorylate BAD and RSK1-induced phosphorylation of BAD at ser112 suppresses BAD-mediated apoptosis in neurons. BAD inhibits G(1) to S phase transition in MCF7 breast cancer cells and overexpression of BAD inhibits cell growth as well as cyclin D1 expression.
Form	Recombinant protein stored in 50mM Tris-150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25m DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~47 kDa
Purity	>85%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 μg/μl

GENE INFORMATION

Gene Name	BAD BCL2-associated agonist of cell death [Homo sapiens]
Official Symbol	BAD
Synonyms	BAD; BCL2-associated agonist of cell death; bcl2 antagonist of cell death; BBC2; BCL2L8; bcl2-L-8; BCL2-binding protein; bcl-2-like protein 8; BCL2-binding component 6; bcl-2-binding component 6; BCL-X/BCL-2 binding protein; BCL2-antagonist of cell death protein; bcl-XL/Bcl-2-associated death promoter;
Gene ID	572
mRNA Refseq	NM_004322
Protein Refseq	NP_004313
MIM	603167
UniProt ID	Q92934
Chromosome Location	11q13.1

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Pathway	AKT phosphorylates targets in the cytosol, organism-specific biosystem; Activation of BAD and translocation to mitochondria, organism-specific biosystem; Activation of BH3-only proteins, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem;
Function	cysteine-type endopeptidase activator activity involved in apoptotic process; lipid binding; phospholipid binding; protein binding; protein heterodimerization activity; protein kinase binding; protein phosphatase binding;

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