

Recombinant Mouse BH3 Interacting Domain Death Agonist

Cat. No. Bid-1382M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse BID produced in *E. Coli* is a single, non-glycosylated polypeptide chain containing 1-195 amino acids and having a molecular mass of 22 kDa.

Species Mouse

Source E.coli

ProteinLength 1-195 a.a.

Description BID is a pro-apoptotic Bcl-2 protein having only the BH3 domain. In reaction to apoptotic signaling, BID interacts with another Bcl-2 family of cell death regulators, called Bax, they form a heterodimer resulting to the insertion of Bax into the outer mitochondrial membrane. Bax induces the opening of the mitochondrial voltage-dependent anion channel which lead to the release of cytochrome c and other pro-apoptotic factors from the mitochondria resulting in activation of caspases. BID is a mediator of mitochondrial damage induced by caspase-8 (CASP8). CASP8 cleaves BID, and the COOH-terminal part translocates to mitochondria where it triggers cytochrome c release. The major proteolytic product p15 BID releasea cytochrome c. Isoform 1, Isoform 2 and Isoform 4 induce ice-like proteases and apoptosis while Isoform 3 does not induce apoptosis.

Physical Appearance Sterile Filtered colorless liquid formulation.

Formulation The Mouse BID protein solution contains 10mM Tris-HCL pH-8, 1mM EDTA and 250mM NaCl.

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Purity Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Stability BID although stable at 15°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name Bid BH3 interacting domain death agonist [*Mus musculus*]

Synonyms Bid; BH3 interacting domain death agonist; AI875481; AU022477; 2700049M22Rik; OTTMUSP00000028756

Gene ID 12122

mRNA Refseq NM_007544

Protein Refseq NP_031570

UniProt ID P70444

Chromosome Location 6 F1; 6 54.0 cM

Pathway Alzheimer"s disease; Amyotrophic lateral sclerosis (ALS); Natural killer cell mediated cytotoxicity; Pathways in cancer; p53 signaling pathway

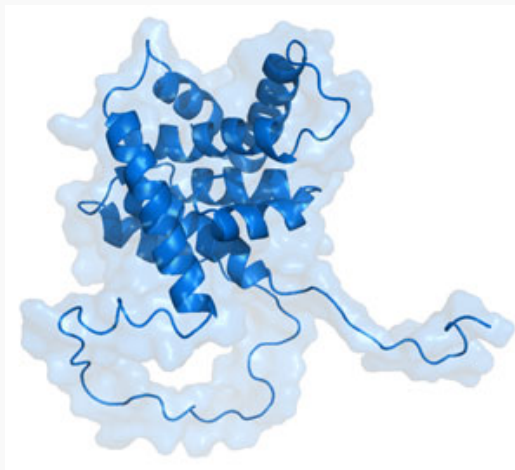
Function protein binding

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PDB rendering based
on 2bid.



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