

Recombinant Mouse BH3 Interacting Domain Death Agonist

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

SPECIFICATION

Product Overview	Recombinant Mouse BID produced in <i>E. Coli</i> 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
Protein Length	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 release a 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.

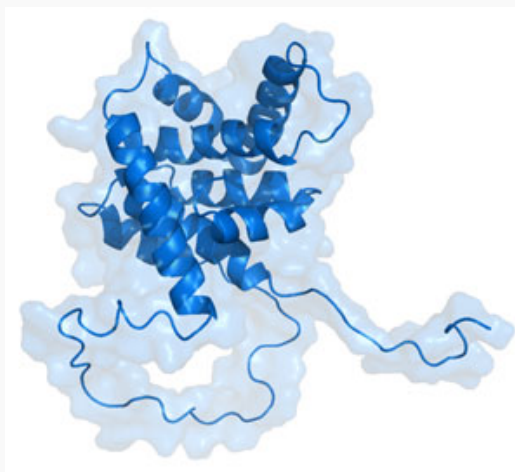
 Tel: 1-631-559-9269 1-516-512-3133

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 [<i>Mus musculus</i>]
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

PDB rendering based
on 2bid.



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