



## Recombinant Human BH3 Interacting Domain Death Agonist Protein Datasheet

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**Catalog Number:** PR27259

**Product Type:** Recombinant Protein

**Source:** *E. Coli*

**Amino Acid Sequence:** MDCEVNNNGSS LRDECITNLL VFGFLQSCSD NSFRELDAL GHLPVLAPQ WEGYDELQTD GNRSSHSRLG RIEADSESQE DIIRNIARHL AQVGDSMDRS IPPGLVNGLA LQLRNTSRSE EDRNRDLATA LEQLLQAYPR DMEKEKTMV LALLLAKKVA SHTPSLLRDV FHHTVNFNQ NLRTYVRSLSA RNGMD.

**Description/Molecular Mass:** 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.

**Purity:** BID Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 195 amino acids and having a molecular mass of 21.9 kDa.  
Greater than 95.0% as determined by:  
(a) Analysis by SDS-PAGE.  
(b) Analysis by RP-HPLC.

**Format:** The protein solution contains 20mM Tris-HCl pH-8 & 20% NaCl.

**Storage:** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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