



Product Datasheet

Product Name	Truncated BH3 Interacting Domain Death Agonist Mouse Recombinant
Cata No	CB501501
Source	<i>Escherichia Coli</i> .
Synonyms	Truncated BH3-interacting domain death agonist, p22 BID, BID, FP497, MGC15319, MGC42355, tBID.

Description

Truncated BH3 interacting domain death agonist is a truncated form of the pro-apoptotic full-length BID. Truncated BH3 interacting domain death agonist is generated by Caspase-8 cleavage of BID. The truncated form of the protein translocates from the cytosol to mitochondria and transduces apoptotic signals.

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.

Truncated BID Mouse Recombinant also called BH3-interacting domain death agonist p15 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 61-195 amino acids (135 a.a.) and having a molecular mass of 15.4 kDa.

Physical Appearance

Sterile Filtered colorless liquid formulation.

Purity

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

Formulation

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

Stability

tBID 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.