BID Protein, Mouse (His)

Cat. No.:	HY-P701328
Synonyms:	BH3-interacting domain death agonist; BID; p15 BID
Species:	Mouse
Source:	E. coli
Accession:	EDK99650.1 (A1-S195)
Gene ID:	12122
Molecular Weight:	Approximately 22.72 kDa

PROPERTIES

AA Sequence	A G S A W S Y T A C A M D S E V S N G S G L G A K H I T D L L V F G F L Q S S G C T R Q E L E V L G R E L P V Q A Y W E A D L E D E L Q T D G S Q A S R S F N Q G R I E P D S E S Q E E I I H N I A R H L A Q I G D E M D H N I Q P T L V R Q L A A Q F M N G S L S E E D K R N C L A K A L D E V K T A F P R D M E N D K A M L I M T M L L A K K V A S H A P S L L R D V F H T T V N F I N Q N L F S
Biological Activity	Mouse BID, His Tag immobilized on CM5 Chip can bind Human BCL2L1/Bcl-XL Protein, His Tag with an affinity constant of 33.06 nM as determined in SPR assay (Biacore T200).
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BH3-interacting domain death agonist (BID), a pro-apoptotic member of the Bcl-2 family, is initially discovered through binding to both pro-apoptotic Bax and anti-apoptotic Bcl-2. BID is activated in the BCL-2-regulated or mitochondrial apoptosis pathway and acts as a switch between the extrinsic and intrinsic cell death pathways. During apoptosis, BID can be cleaved not only by caspase-8 during death receptor apoptotic signaling, but also by other caspases, granzyme B,

calpains and cathepsins. Protease-cleaved BID migrates to mitochondria where it induces permeabilization of the outer mitochondrial membrane that is dependent on the pro-apoptotic proteins Bax and/or Bak, and thus BID acts as a sentinel for protease-mediated death signals[1][2].

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