BID Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	BID, Blocking Peptide
Full Product Name	BID Blocking Peptide
Product Gene Name	BID blocking peptide
Product Synonym Names	Apoptic death agonist; Apoptotic death agonist BID; BH3 interacting domain death agonist; BH3 interacting domain death agonist p11; BH3 interacting domain death agonist p13; BH3 interacting domain death agonist p15; BH3-interacting domain death agonist p11; BID; BID isoform ES(1b); BID isoform L(2); BID isoform Si6; BID_HUMAN; Desmocollin type 4; FP497; Human BID coding sequence; MGC15319; MGC42355; p11 BID; p13 BID; p15 BID; p22 BID
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	BID peptide (MBS9625401) is used for blocking the activity of BID antibody (MBS9606684)
Molecular Weight	21,995 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (18216906..18257431, complement). Location: 22q11.1
OMIM	601997
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for BID blocking peptide	Blocking/Control
Related Product Information for BID blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of BID blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BID purchase	MBS9625401 is a blocking peptide targeting BID.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BID. It may not necessarily be applicable to this product.

NCBI GI #	4557361
NCBI GeneID	637
NCBI Accession #	NP_001187.1

UniProt Primary Accession #	P55957
UniProt Secondary Accession #	Q549M7; Q71T04; Q7Z4M9; Q8IY86
UniProt Related Accession #	P55957
GenBank Nucleotide #	NM_001196.3
NCBI Official Full Name	BH3-interacting domain death agonist isoform 2
NCBI Official Synonym Full Names	BH3 interacting domain death agonist
NCBI Official Symbol	BID
NCBI Official Synonym Symbols	FP497
UniProt Protein Name	BH3-interacting domain death agonist
UniProt Synonym Protein Names	p22 BID; BIDCleaved into the following 3 chains:BH3-interacting domain death agonist p15; Alternative name(s):; p15 BIDBH3-interacting domain death agonist p13; Alternative name(s):; p13 BIDBH3-interacting domain death agonist p11; Alternative name(s):; p11 BID
Protein Family	BH3-interacting domain death agonist
UniProt Gene Name	BID
UniProt Synonym Gene Names	BID
UniProt Entry Name	BID_HUMAN
NCBI Protein Information	BH3-interacting domain death agonist; p22 BID; BID isoform Si6; BID isoform L(2); BID isoform ES(1b); desmocollin type 4; apoptic death agonist; Human BID coding sequence
NCBI Summary for BID	This gene encodes a death agonist that heterodimerizes with either agonist BAX or antagonist BCL2. The encoded protein is a member of the BCL-2 family of cell death regulators. It is a mediator of mitochondrial damage induced by caspase-8 (CASP8); CASP8 cleaves this encoded protein, and the COOH-terminal part translocates to mitochondria where it triggers cytochrome c release. Multiple alternatively spliced transcript variants have been found, but the full-length nature of some variants has not been defined. [provided by RefSeq, Jul 2008]
UniProt Comments for BID	BID: a pro-apoptotic member of the Bcl-2 superfamily. Targets intracellular membranes and contains a BH3 death domain. Heterodimerizes with either the pro-apoptotic protein BAX or the anti-apoptotic protein BCL2, antagonizing its protective effect. The activity of BID is regulated by Caspase 8-mediated cleavage, exposing the BH3 domain and significantly changing the surface charge and hydrophobicity, causing translocation to mitochondria where it triggers cytochrome c release. Multiple alternatively spliced variants have been found. Protein type: Apoptosis; Mitochondrial Chromosomal Location of Human Ortholog: 22q11.1 Cellular Component: mitochondrial outer membrane; membrane; mitochondrion; cytosol Molecular Function: protein binding; ubiquitin protein ligase binding; death receptor binding Biological Process: caspase activation; release of cytochrome c from mitochondria; positive regulation of apoptosis; apoptosis; positive regulation of protein homooligomerization; DNA damage response, signal transduction; response to estradiol stimulus; regulation of cell proliferation; positive regulation of protein oligomerization; neuron apoptosis; apoptotic mitochondrial changes; induction of apoptosis via death domain receptors; brain development; protein targeting to mitochondrion; protein homooligomerization
Research Articles on BID	**1.** Diva binds peptides derived from the BH3 domain of several other proapoptotic Bcl-2 proteins, including mouse Harakiri, Bid, Bak and Bmf.
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