antibodies -online.com





BID Protein (AA 1-195)



Overview

Quantity:	50 μg
Target:	BID
Protein Characteristics:	AA 1-195
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

1 Todast Betails		
Purpose:	Recombinant Human BH3-Interacting Domain Death Agonist/BID	
Sequence:	MDCEVNNGSS LRDECITNLL VFGFLQSCSD NSFRRELDAL GHELPVLAPQ WEGYDELQTD	
	GNRSSHSRLG RIEADSESQE DIIRNIARHL AQVGDSMDRS IPPGLVNGLA LQLRNTSRSE	
	EDRNRDLATA LEQLLQAYPR DMEKEKTMLV LALLLAKKVA SHTPSLLRDV FHTTVNFINQ	
	NLRTYVRSLA RNGMD	
Characteristics:	Recombinant Human BH3-Interacting Domain Death Agonist/BID is produced with our E. coli	
	expression system. The target protein is expressed with sequence (Met1-Asp195) of Human	
	BID protein.	
Purity:	> 95 % as determined by reducing SDS-PAGE.	
Sterility:	0.2 μm filtered	
Endotoxin Level:	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test	

Target Details

Target:	BID
Alternative Name:	bid-protein (BID Products)
Background:	BH3-Interacting Domain Death Agonist (BID) is a member of the Bcl-2 protein family which
	regulates outer mitochondrial membrane permeability. BID is a pro-apoptotic member that
	causes cytochrome c to be released from the mitochondria intermembrane space into the
	cytosol. Interaction of Bid with Bak causes altered mitochondrial membrane permeability. BID
	contains only the BH3 domain, which is required for its interaction with the Bcl-2 family proteins
	and for its pro-death activity. BID is susceptible to proteolytic cleavage by caspases, calpains,
	Granzyme B and cathepsins. It is an integrating key regulator of the intrinsic death pathway that
	amplifies caspase-dependent and caspase-independent execution of neuronal apoptosis.
	Therefore pharmacological inhibition of BID provides a promising therapeutic strategy in
	neurological diseases where programmed cell death is prominent, and also offer a new strategy
	for the treatment of acute renal failure associated with ischemia-reperfusion. BID receives
	direct inputs from a key regulator of the cell cycle arrest/DNA repair machinery (ATM), and
	therefore is an excellent candidate to coordinate genotoxic stress responses and apoptotic cell
	death. BID is a novel pro-apoptosis Bcl-2 family protein that is activated by caspase 8 in
	response to Fas/TNF-R1 death receptor signals. Deletion of BID inhibits carcinogenesis in the
	liver, although this genetic alteration promotes tumorigenesis in the myeloid cells. This is likely
	related to the function of BID to promote cell cycle progression into S phase. BID could be also
	involved in the maintenance of genomic stability by engaging at mitosis checkpoint.
	Alternative Names: BH3-Interacting Domain Death Agonist, p22 BID, BID
Molecular Weight:	21.99 kDa
UniProt:	P55957
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, Positive Regulation of Endopeptidase Activity
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 μg/mL.
	Dissolve the lyophilized protein in ddH20.
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Handling

Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB, 100 mM KCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months