Recombinant Human BID Protein

Catalog No. PKSH031587

Note: Centrifuge before opening to ensure complete recovery of vial contents.

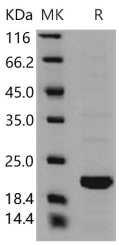
Description

Synonyms	BH3-Interacting Domain Death Agonist;p22 BID;BID
Species	Human
Expression Host	E.coli
Sequence	Met 1-Asp 195
Accession	P55957-1
Calculated Molecular Weight	22 kDa
Observed molecular weight	22 kDa
Tag	None
Bioactivity	1. Immobilized human BID at 10 μg/mL (100 μl/well) can bind biotinylated human BCL2L1, The EC50 of biotinylated human BCL2L1 is 7.1 ng/mL. 2. Immobilized human BID at 10 μg/mL (100 μl/well) can bind biotinylated mouse BCL2L1, The EC50 of biotinylated mouse BCL2L1 is 5. 6 ng/mL.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 40mM Tris, 150mM NaCl, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017
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Background

The BH3 interacting domain death agonist (BID) is a pro-apoptotic member of the Bcl-2 protein family; which contains only the BH3 domain; and is required for its interaction with the Bcl-2 family proteins and for its pro-death activity. BID is important to cell death mediated by these proteases and thus is the sentinel to protease-mediated death signals. Recent studies further indicate that Bid may be more than just a killer molecule; it could be also involved in the maintenance of genomic stability by engaging at mitosis checkpoint. BID 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. BID is activated by Caspase 8 in response to Fas/TNF-R1 death receptor activation. Activated BID is translocated to mitochondria and induces cytochrome c release; which in turn activates downstream caspases. BID action has been proposed to involve the mitochondrial re-location of its truncated form; tBid; to facilitate the release of apoptogenic proteins like cytochrome c.

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