

Human BID Protein

Catalog Number: 10468-HNCE



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

FP497

Protein Construction:

A DNA sequence encoding the human BID isoform 1 (P55957-1) (Met 1-Asp 195) was expressed and purified, with additional two amino acids (Gly & Pro) at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

Immobilized Human BID (Cat:10468-HNCE) at 2 µg/mL (100 µL/well) can bind Human Bcl-XL His (Cat:10455-H08E), the EC₅₀ of Human Bcl-XL His (Cat:10455-H08E) is 15-80 ng/mL.

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human BID consists of 197 amino acids and migrates as an approximately 22 kDa band in SDS-PAGE under reducing conditions as predicted.

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. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

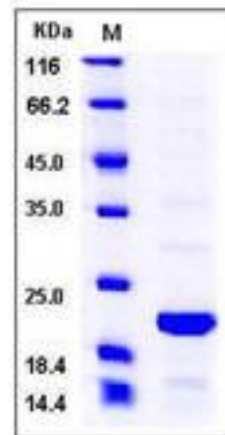
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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.

References

1. Gross A. (2006) BID as a double agent in cell life and death. Cell Cycle. 5(6): 582-4.
2. Yin XM. (2007) Bid, a BH3-only multi-functional molecule, is at the cross road of life and death. Gene. 369: 7-19.
3. Esposito MD. (2002) The roles of Bid. Apoptosis. 7(5): 433-40.

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