

BID Protein, Mouse, Recombinant (His)

General Information

Synonyms:	BID;p22 BID
Protein Construction:	Ala1-Ser195
Species:	Mouse
Expression Host:	E. coli
Accession:	EDK99650.1
Molecular Weight:	22.72 kDa (predicted) same as Tris-Bis PAGE result.

QC Testing

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.
Purity:	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Bid, BH3-interacting domain death agonist, was initially cloned based in its ability to interact with both Bcl-2 and Bax. 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. Bid is important to cell death mediated by these proteases and thus is the sentinel to protease-mediated death signals.

Reference

Yin XM. Bid, a BH3-only multi-functional molecule, is at the cross road of life and death. Gene. 2006 Mar 15;369:7-19. doi: 10.1016/j.gene.2005.10.038. Epub 2006 Jan 27. PMID: 16446060.

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