

## Mouse BID Protein

Cat. No. BID-ME101

### Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Mouse BID Protein is expressed from E.coli with His tag at the C-Terminus.<br>It contains Ala1-Ser195. |
| <b>Accession</b>        | EDK99650.1   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 22.72 kDa same as Tris-Bis PAGE result.  |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.  |
| <b>Purity</b>           | > 95% as determined by Tris-Bis PAGE<br>> 90% as determined by HPLC  |

### Formulation and Storage

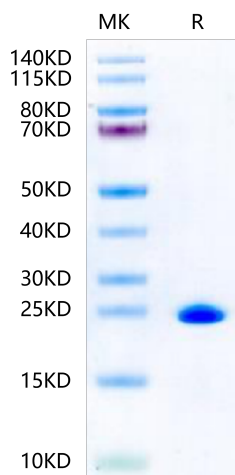
|                       |  |
|-----------------------|--|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.   |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.   |
| <b>Storage</b>        | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

### 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.

### Assay Data

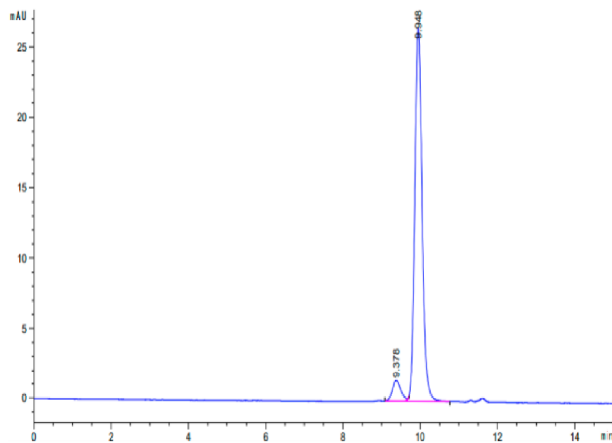
#### Tris-Bis PAGE



Mouse BID on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

#### SEC-HPLC

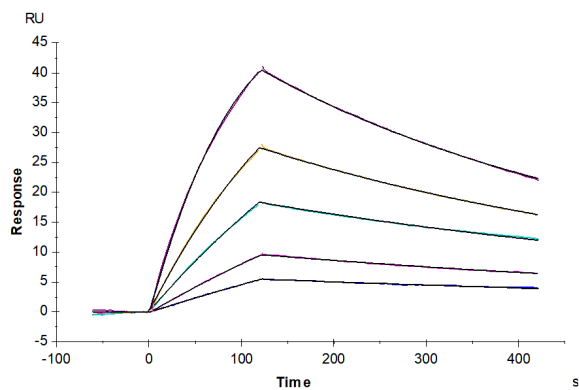
Assay Data



The purity of Mouse BID is greater than 90% as determined by SEC-HPLC.

Assay Data

SPR Data



Mouse BID, His Tag immobilized on CM5 Chip can bind Human BCL2L1, His Tag with an affinity constant of 33.06 nM as determined in SPR assay (Biacore T200).