# BID Protein, Mouse (His-GST)

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| **Cat. No.:** | HY-P72852 |
| **Synonyms:** | BH3-interacting domain death agonist; BID; p15 BID |
| **Species:** | Mouse |
| **Source:** | E. coli |
| **Accession:** | EDK99650.1 (M12-D206) |
| **Gene ID:** | 12122 |
| **Molecular Weight:** | Approximately 48 kDa |

## PROPERTIES

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| **Biological Activity** | Measured by its binding ability in a functional ELISA. Immobilized mouse BID at 10 μg/mL (100 μL/well) can bind biotinylated human BCL2L1. The $ED_{50}$ for this effect is 40.75 ng/mL. |
| **Appearance** | Lyophilized powder |
| **Formulation** | Lyophilized from a 0.22 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US; may vary elsewhere. |

## DESCRIPTION

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| **Background** | BH3-interacting domain death agonist (BID), a pro-apoptotic member of the Bcl-2 family, is initially discovered through binding to both pro-apoptotic Bax and anti-apoptotic Bcl-2. BID is activated in the BCL-2-regulated or mitochondrial apoptosis pathway and acts as a switch between the extrinsic and intrinsic cell death pathways. During apoptosis, BID can be cleaved not only by caspase-8 during death receptor apoptotic signaling, but also by other caspases, granzyme B, calpains and cathepsins. Protease-cleaved BID migrates to mitochondria where it induces permeabilization of the outer mitochondrial membrane that is dependent on the pro-apoptotic proteins Bax and/or Bak, and thus BID acts as a sentinel for protease-mediated death signals[1][2]. |

**Caution: Product has not been fully validated for medical applications. For research use only.**

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