

## Recombinant Human BID, GST-tagged

Cat. No. BID-6977H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human BID was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	<p>BID is a BH3 interacting death domain that heterodimerizes with either agonist BAX or antagonist BCL2. BID is a member of the BCL-2 family of cell death regulators and is a mediator of mitochondrial damage induced by caspase-8 (CASP8). BID initiates apoptosis by binding to regulatory sites on prosurvival BCL2 proteins to directly neutralize their function. Multiple alternatively spliced transcript variants of BID have been found, but the full-length nature of some variants has not been defined. BID together with Cathepsins play an important role in the actions of Camptothecin on breast cancer cells.</p>
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Molecular Mass</b>	~52kDa
<b>Purity</b>	>85%

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<b>Applications</b>	Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.2 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	BID BH3 interacting domain death agonist [ Homo sapiens ]
<b>Official Symbol</b>	BID
<b>Synonyms</b>	BID; BH3 interacting domain death agonist; BH3-interacting domain death agonist; p22 BID; BID isoform Si6; BID isoform L(2); BID isoform ES(1b); desmocollin type 4; apoptic death agonist; Human BID coding sequence; FP497; MGC15319; MGC42355;
<b>Gene ID</b>	637
<b>mRNA Refseq</b>	NM_001196
<b>Protein Refseq</b>	NP_001187
<b>MIM</b>	601997
<b>UniProt ID</b>	P55957
<b>Chromosome Location</b>	22q11.2

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**Pathway**

Activation and oligomerization of BAK protein, organism-specific biosystem; Activation of BAD and translocation to mitochondria, organism-specific biosystem; Activation of BH3-only proteins, organism-specific biosystem; Activation, myristoylation of BID and translocation to mitochondria, organism-specific biosystem; Activation, translocation and oligomerization of BAX, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem;

**Function**

death receptor binding; protein binding; ubiquitin protein ligase binding;

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