

## Active Recombinant Mouse Gzmb Protein (227 aa)

Cat. No. Gzmb-273G Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Granzyme B produced in CHO cells is a polypeptide chain containing 227 amino acids. A fully biologically active molecule, rmGranzyme B has a molecular mass of 32 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.

**Species** Mouse

**Source** CHO

**ProteinLength** 227

**Description** Granzyme B is a serine protease most commonly found in the granules of cytotoxic lymphocytes (CTLs), natural killer cells (NK cells) and cytotoxic T cells. It is secreted by these cells along with the pore forming protein perforin to mediate apoptosis in target cells. Granzyme B has also recently been found to be produced by a wide range of non-cytotoxic cells ranging from basophils and mast cells to smooth muscle cells. The secondary functions of granzyme B are also numerous. Granzyme B has been shown to be involved in inducing inflammation by stimulating cytokine release and is also involved in extracellular matrix remodeling.

**Form** Sterile Filtered White lyophilized (freeze-dried) powder.

**Bio-activity** Measured by its ability to cleave a chromogenic peptide substrate (Ac-IEPD-pNA), the specific activity is greater than 1000 nM/min per µg of enzyme.

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<b>Molecular Mass</b>	32 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	IIGGHEVKPHSRPYMALLSIKDQQPEAICGGFLIREDFVLTAAHCEGSIINVTLGAHNIK EQEKTQQVIPMVKCIHPDYNPKTFSNDIMLLKLKSKAKRTRAVRPLNLP RRNVNVK PGDVCYVAGWGRMAPMGKYSNTLQLEVELTVQKDRECESYFKNRYNKTNQICAGD PKTKRASFRGDSGGPLVCKKVAAGIVSYGYKDGSPPRRAFTKVSSFLSWIKKTMKSS
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 98% as analyzed by SDS-PAGE.
<b>Storage</b>	Lyophilized recombinant Mouse Granzyme B remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, recombinant Mouse Granzyme B should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	Gzmb granzyme B [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Gzmb
<b>Synonyms</b>	GZMB; granzyme B; granzyme B(G,H); fragmentin-2; cytotoxic cell protease 1; GZB; CCP1; Ctla1; Ctla-1; AI553453; CCP-1/C11;
<b>Gene ID</b>	14939
<b>mRNA Refseq</b>	NM_013542

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**Protein Refseq** NP\_038570

**UniProt ID** P04187

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