

Active Recombinant Mouse Gzmb Protein

Cat. No. Gzmb-070M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse granzyme B (Gzmb) without tag was expressed Sf9 cell.
Species	Mouse
Source	Insect Cells
Description	This gene encodes a member of the granzyme subfamily of proteins, part of the peptidase S1 family of serine proteases. The encoded preproprotein is secreted by natural killer (NK) cells and cytotoxic T lymphocytes (CTLs) and proteolytically processed to generate the active protease, which induces target cell apoptosis. This protein also processes cytokines and degrades extracellular matrix proteins, and these roles are implicated in chronic inflammation and wound healing. Mice lacking a functional copy of this gene exhibit impaired immune cell-mediated cytotoxicity.
Bio-activity	Determined by its ability to cleave a synthetic chromogenic Granzyme B substrate. The expected specific activity, when using the Ac-IEPD-pNA substrate at 25C, is greater than 750 nM/min per ug of enzyme.
Molecular Mass	28.9 kDa
AA Sequence	IIGGHEVKPHSRPYMALLSIKDQQPEAICGGFLIREDFVLTAAHCEGSIINVTLGAHNIK EQEKTQQVIPMVKCIHPDPYNPKTFSNDIMLLKLKSKAKRTRAVRPLNLP RRNVNVK PGDVCYVAGWGRMAPMGKYSNTLQEVELTVQKDRECESYFKNRYNKTNQICAGD PKTKRASFRGDSGGPLVCKKVAAGIVSYGYKDGSPPPRAFTKVSSFLSWIKKTMKSS

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Endotoxin	Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)
Purity	>95%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Reconstitution	Resuspend the protein in the desired concentration in proper buffer.

GENE INFORMATION

Gene Name	Gzmb granzyme B [Mus musculus (house mouse)]
Official Symbol	Gzmb
Synonyms	Gzmb; granzyme B; GZB; CCP1; Ctla1; Ctla-1; AI553453; CCP-1/C11; granzyme B(G,H); cytotoxic cell protease 1; fragmentin-2; EC 3.4.21.79
Gene ID	14939
mRNA Refseq	NM_013542
Protein Refseq	NP_038570
UniProt ID	P04187

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