

Active Recombinant Mouse Granzyme

Cat. No. Gzmb-1693M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gzmb protein, was expressed in Baculovirus and purified by using conventional chromatography.
Species	Mouse
Source	Mouse
Description	Granzyme B is a cysteine protease found in the cytoplasmic granules of cytolytic T lymphocytes (CTL) and natural killer (NK) cells. Granzyme B is required for the induction of target cell lysis, which occurs as part of cell mediated immune responses, and can activate apoptosis in target cells by both caspase dependent and caspase independent mechanisms. Proteolytic cleavage of substrates by Granzyme B takes place primarily after aspartic acid residues.
Form	Supplied as a lyophilized powder.
Purity	> 98% by SDS - PAGE
Sequence	Region of Granzyme B protein corresponding to amino acids IIGGHEVKPH SRPYMALLSI KDQQPEAICG GFLIREDFVL TAAHCEGSII NVTLGAHNIK EQEKTQQVIP MVKCIPHPDY NPKTFSNDIM LLKLKSKAKR TRAVRPLNLP RRNVNVKPGD VCYVAGWGRM APMGKYSNTL QEVELTVQKD RECESYFKNR YNKTNQICAG DPKTKRASFR
Molecular Mass	28.9 kDa

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Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Bioactivity	Determined by its ability to cleave a synthetic chromogenic Granzyme B substrate. The expected specific activity, when using the Ac-IEPD-pNA substrate at 250C, is greater than 750 nM/min per ug of enzyme.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	Gzmb granzyme B [Mus musculus]
Official Symbol	Gzmb
Synonyms	Gzmb; granzyme B; GZB; CCP1; Ctla1; Ctla-1; AI553453; CCP-1/C11; EC 3.4.21.79
Gene ID	14939
mRNA Refseq	NM_013542
Protein Refseq	NP_038570
UniProt ID	P04187
Chromosome Location	14 D3; 14 20.5 cM
Pathway	Allograft rejection; Autoimmune thyroid disease; Graft-versus-host disease; Natural

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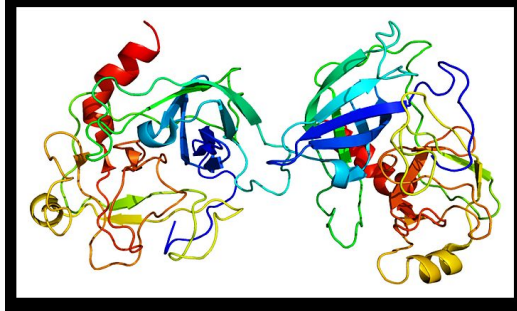
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killer cell mediated cytotoxicity; Type I diabetes mellitus

Function

hydrolase activity; peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity

**PDB rendering
based on 1fq3.**



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