Recombinant Murine Granzyme B

Cat. No. Gzmb-942M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant murine Granzyme B produced in*Insect cells*is a glycosylated 227 amino acid protein, comprising the mature active portion of the murine Granzyme B.
Species	Mouse
Source	Insect Cells
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.
Purity	> 98% by SDS-PAGE.
Endotoxin Level	< 0.1 ng per μg of Granzyme-B.
Stabilizer	None.
Formulation	Lyophilized.
Biological Activity	Determined by its ability to cleave a synthetic chromogentic Granzyme B substrate. The expected specific activity, when using the Ac-IEPD-pNA substrate at 25℃, is greater than 750 nM/min per μg of enzyme.

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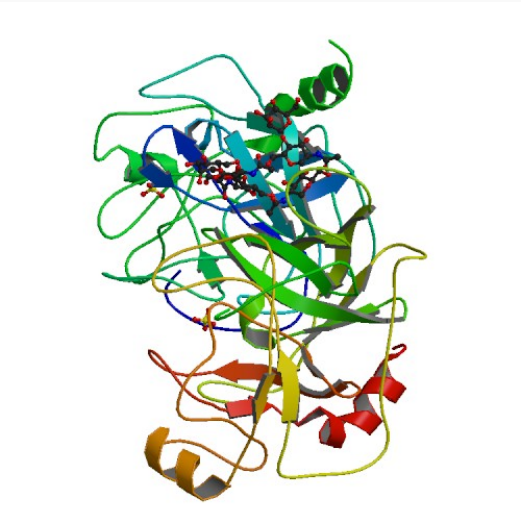
Stability	The lyophilized protein is stable for at least 2 years from date of receipt at -20℃. Reconstituted Granzyme-B is stable for at least 3 months when stored in working aliquots with a carrier protein at -20℃. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Gzmb granzyme B [Mus musculus]
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 20.5 cM
Pathway	Allograft rejection; Autoimmune thyroid disease; Graft-versus-host disease; Natural killer cell mediated cytotoxicity; Type I diabetes mellitus
Function	hydrolase activity; peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity

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PDB rendering based on 1fq3.



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