

Recombinant Murine Granzyme B

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

SPECIFICATION

Product Overview	Recombinant murine Granzyme B produced in <i>Insect cells</i> 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 chromogenic Granzyme B substrate. The expected specific activity, when using the Ac-IEPD-pNA substrate at 25°C, is greater than 750 nM/min per µg of enzyme.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted Granzyme-B is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based
on 1fq3.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA