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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Molecular Mass	32 kDa, observed by reducing SDS-PAGE.
AA Sequence	IIGGHEVKPHSRPYMALLSIKDQQPEAICGGFLIREDFVLTAAHCEGSIINVTLGAHNIK EQEKTQQVIPMVKCIPHPDYNPKTFSNDIMLLKLKSKAKRTRAVRPLNLPRRNVNVK PGDVCYVAGWGRMAPMGKYSNTLQEVELTVQKDRECESYFKNRYNKTNQICAGD PKTKRASFRGDSGGPLVCKKVAAGIVSYGYKDGSPPRAFTKVSSFLSWIKKTMKSS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE.
Storage	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.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

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

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Protein Refseq	NP_038570
UniProt ID	P04187

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