

Active Recombinant Full Length Human GZMB, His tagged

Cat. No. GZMB-296H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GZMB proform (NP_004122.1) (Met 1-Tyr 247), fused with a C-terminal polyhistidine tag, was produced in HEK293 Cells.
Species	Human
Source	HEK293
ProteinLength	1-247 aa
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to cleave a peptide substrate, tButyloxycaronylAlaAlaAspThio Benzylester (BocAADSbzl), in the presence of 5,5'Dithiobis (2nitrobenzoic acid) (DTN B). The specific activity is >1500 pmol/min/μg. (The enzyme needs to be activated by Recombinant Mouse Active Cathepsin C)
Molecular Mass	The recombinant human Granzyme B consists of 240 amino acids and has a calculated molecular mass of 27.2 kDa. As a result of glycosylation, the apparent molecular mass of rhGranzyme B is approximately 35-40 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.

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Purity	≥ 97 % as determined by SDS-PAGE ≥ 95 % as determined by SEC-HPLC.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	GZMB granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) [Homo sapiens]
Official Symbol	GZMB
Synonyms	GZMB; granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1); CSPB, CTLA1; granzyme B; cathepsin G like 1; CCPI; CGL 1; CGL1; CSP B; CTSSL1; cytotoxic serine protease B; fragmentin 2; HLP; SECT; T cell serine protease 1 3E; C11; CTLA-1; fragmentin-2; cathepsin G-like 1; human lymphocyte protein; T-cell serine protease 1-3E; cytotoxic T-lymphocyte proteinase 2; CSPB; CGL-1; CSP-B; CTLA1;
Gene ID	3002
mRNA Refseq	NM_004131
Protein Refseq	NP_004122
MIM	123910

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