

Active Recombinant Human GZMM protein, His-tagged

Cat. No. GZMM-3350H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human GZMM protein(P51124)(26~257 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	26-257 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	GZMM (Granzyme M) is one of the neutral serine proteases, which is specifically expressed by NK cells and mediates a novel major and perforin-dependent cell death pathway. Granzyme M has been proven to targets α-Tubulin and disorganizes the microtubule network, besides, Ezrin has also been identified as a substrate of GZMM. Human granzyme M is synthesized as a precursor (264 residues) with a signal peptide (residues 1-23), a propeptide (residues 24-25) and a mature chain (residues 26-257). The purified recombinant human Granzyme M consists of residues 26 to 257 which activity was measured by its ability to cleaves a thioester substrate Z-Lys-SBzl•HCl. The reaction was performed in 0.05 M Tris, 0.15 M NaCl, 0.01% Triton X-100, pH 8.0 (assay buffer), initiated by addition 50 μL of various concentrations of GZMM (diluted by assay buffer) to 50 μL of 1.2 mM substrate and DTNB mixture. The final well serves as a negative control with no GZMM, replace with 50 μL assay

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buffer. Incubated at 25°C for 5min, then read at a wavelength of 405 nm. The specific activity of recombinant human Granzyme M is >80 pmol/min/g.

Molecular Mass	26.3kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

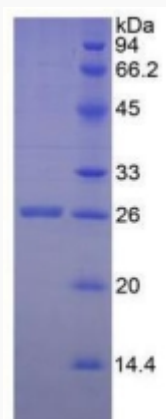
GENE INFORMATION

Gene Name	GZMM granzyme M (lymphocyte met-ase 1) [Homo sapiens]
Official Symbol	GZMM
Synonyms	GZMM; granzyme M (lymphocyte met-ase 1); granzyme M; LMET1; lymphocyte met ase 1; MET1; met-ase; HU-Met-1; lymphocyte met-ase 1; Met-1 serine protease; natural killer cell granular protease;
Gene ID	3004
mRNA Refseq	NM_005317
Protein Refseq	NP_005308

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MIM 600311**UniProt ID** P51124**SDS-PAGE** 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