

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	<p>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 μ of 1.2 mM substrate and DTNB mixture. The final well serves as a negative control with no GZMM, replace with 50 μL assay</p>

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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

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