

Active Recombinant Mouse Gzmk protein, His-tagged

Cat. No. Gzmk-5812M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Gzmk protein(44-227 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
Form	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Bio-activity	Granzyme K is a member of the granzyme family of the serine proteases found specifically in the cytotoxic granules of cytotoxic T lymphocytes (CTL) and natural killer (NK) cells. Mouse granzyme K is synthesized as a precursor (263 residues) with a signal peptide (residues 1- 21), a propeptide (residues 22-25) and a mature chain (residues 26-263). The activity of recombinant mouse Granzyme K 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 µ L of various concentrations of GZMK(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 GZMK, replace with 50 µL assay buffer. Incubated at 25°C for 5min, then read at a wavelength of 405 nm. The specific activity of recombinant mouse Granzyme K is >70 pmol/min/g.
Molecular Mass	24.1kDa
Endotoxin	<1.0EU per

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	1µg (determined by the LAL method).
Purity	>90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 month.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

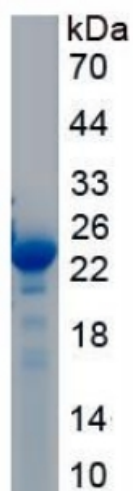
Gene Name	GzmK granzyme K [<i>Mus musculus</i>]
Official Symbol	GzmK
Synonyms	GZMK; granzyme K;
Gene ID	14945
mRNA Refseq	NM_008196
Protein Refseq	NP_032222

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