

## Active Recombinant Human GZMK protein, His-tagged

Cat. No. GZMK-3067H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human GZMK protein(P49863)(Ile27-Asn264), fused with N-terminal His tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	27-264 aa
<b>Form</b>	Lyophilized from PBS, pH7.4, 0.05% SKL, 5% Trehalose, 5% Mannitol.
<b>Bio-activity</b>	The purified recombinant human Granzyme K consists of residues 27 to 264 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 μ 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 μ assay buffer. Incubated at 25°C for 5min, then read at a wavelength of 405 nm. The specific activity of recombinant human Granzyme K is 59 pmol/min/g.
<b>Molecular Mass</b>	The recombinant human GZMK consists of 247 amino acids and predicts a molecular mass of 27.1 kDa.
<b>AASequence</b>	MHHHHHHHHIIGGKEVSPHSRPFMASIQYGGHHVCGGVLDIPQWVLTAAHCQYRFT KGQSPTVVLGAHSLSKNEASKQTLEIKKFIPFSRVTS DPQSN DIMLVKLQTA AKLNKH

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VKMLHIRSKTSLRSGTKCKVTGWGATDPDSLRPSTLREVTVTVLSRKLKNSQSYY  
 NGDPFITKDMVCAGDAKGQKDSCKGDSGGPLICKGVFHAIVSGGHECGVATKPGIY  
 TLLTKKYQTWIKSNLVPHTN

**Endotoxin** <1.0EU per 1g (determined by the LAL method).

**Purity** > 90% as determined by SDS-PAGE.

**Storage** 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 0.175 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name** GZMK granzyme K (granzyme 3; tryptase II) [ Homo sapiens ]

**Official Symbol** GZMK

**Synonyms** GZMK; granzyme K (granzyme 3; tryptase II); granzyme K (serine protease, granzyme 3; tryptase II); granzyme K; PRSS; TRYP2; NK-Tryp-2; granzyme 3; granzyme-3; tryptase II; fragmentin-3; NK-tryptase-2; granzyme K (serine protease, granzyme 3; tryptase II);

**Gene ID** 3003

**mRNA Refseq** NM\_002104

**Protein Refseq** NP\_002095

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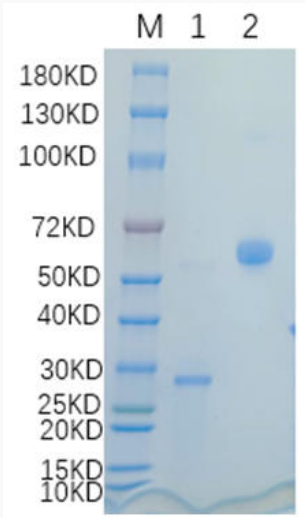
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**MIM** 600784

**UniProt ID** P49863

**SDS-PAGE**



Lane 1: GZMK-3067H 1g; Lane 2: BSA 1g

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