

Active Recombinant Human GZMK protein, His-tagged

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

SPECIFICATION

Product Overview	Active Recombinant Human GZMK protein(P49863)(Ile27-Asn264), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	27-264 aa
Form	Lyophilized from PBS, pH7.4, 0.05% SKL, 5% Trehalose, 5% Mannitol.
Bio-activity	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.
Molecular Mass	The recombinant human GZMK consists of 247 amino acids and predicts a molecular mass of 27.1 kDa.
AASequence	MHHHHHHHHIIGGKEVSPHSRPFMASIQYGGHHVCGGVLIDPQWVLTAHCQYRFT KGQSPTVVLGAHSLSKNEASKQTLEIKKFIPFSRVTSDPQSNDIMLVKLQTAAKLNKH

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VKMLHIRSKTSLRSGTKCKVTGWGATDPDSLRPSTLREVTVTVLSRKL CNSQSY
 NGDPFITKDMVCAGDAKGQKDSCKGDSGGPLICKGVFHAIVSGGHECGVATKPGIY
 TLLTKKYQTWIKSNLVP PHTN

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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MIM	600784
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UniProt ID	P49863
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