

Active Recombinant Human GZMH protein, His-tagged

Cat. No. GZMH-3646H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human GZMH protein(P20718)(19-246 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	19-246 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	<p>Granzyme H is a member of the granzyme family of serine proteases found specifically in the cytotoxic granules of cytotoxic T lymphocytes (CTL) and natural killer (NK) cells. Granzyme H's functions are largely unknown. The more abundant expression of Granzyme H than Granzyme B in NK cells suggests that Granzyme H may complement the pro-apoptotic function of Granzyme B in this cell type. Human Granzyme H is synthesized as a precursor (246 residues) with a signal peptide (residues 1-18), a propeptide (residues 19-20) and a mature chain (residues 21-246). The purified recombinant human Granzyme H consists of residues 19 to 246 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 GZMH (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 GZMH, replaced with 50 µL assay buffer.</p>

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Incubated at 25°C for 5min, then read at a wavelength of 405 nm. The specific activity of recombinant human Granzyme H is >300 pmol/min/g.

Molecular Mass 29.1kDa

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

Purity > 95%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name GZMH granzyme H (cathepsin G-like 2, protein h-CCPX) [Homo sapiens]

Official Symbol GZMH

Synonyms GZMH; granzyme H (cathepsin G-like 2, protein h-CCPX); CTSG2; granzyme H; CCP X; CGL 2; CSP C; CTLA1; cathepsin G-like 2; cytotoxic serine protease C; cytotoxin serine protease-C; cytotoxic T-lymphocyte proteinase; cytotoxic T-lymphocyte-associated serine esterase 1; CCP-X; CGL-2; CSP-C;

Gene ID 2999

mRNA Refseq NM_033423

Protein Refseq NP_219491

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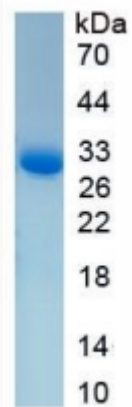
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MIM 116831

UniProt ID P20718

SDS-PAGE



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