

Recombinant Human GZMM, His-tagged

Cat. No. GZMM-97H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Granzyme M/GZMM is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Thr24-Ala257) of Human GZMM fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	24-257 a.a.
Description	Granzyme M is a secreted protein that belongs to the peptidase S1 family of Granzyme subfamily. Human natural killer (NK) cells and activated lymphocytes express and store a distinct subset of neutral serine proteases together with proteoglycans and other immune effector molecules in large cytoplasmic granules. These serine proteases are collectively termed granzymes and include 4 distinct gene products: Granzyme A, Granzyme B, Granzyme H, and Granzyme M. Granzyme M contains one peptidase S1 domain and is highly, constitutively expressed in activated natural killer (NK) cells. Granzyme M cleaves peptide substrates after methionine, leucine, and norleucine. Its physiological substrates include EZR, α-tubulins and the apoptosis inhibitor BIRC5/Survivin. Granzyme M promotes caspase activation and subsequent apoptosis of target cells.
AA Sequence	TQIIGGREVIPHSRPYMASLQRNGSHLCGGVLVHPKWVLTAAHCLAQRMAQLRLVL GLHTLDSPG LTFHIKAAIQHPRYKVPALENDLALLQLDGKVKPSRTIRPLALPSKRQ

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VVAAGTRCSMAGWGLT HQGGRLSRVLRELDLQVLDTRMCNNSRFWNGSLSPSMV
 CLAADSKDQAPCKGDSGGPLVCGKGRV LAGVLSFSSRVCTDIFKPPVATAVAPYVS
 WIRKVTGRSAVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

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

MIM 600311

UniProt ID P51124

**Chromosome
Location** 19p13.3

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Function

peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity;

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