

Recombinant Human GZMA

Cat. No. GZMA-26406TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Granzyme A (aa 41-141) with N-terminal proprietary tag, 36.74 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	101 amino acids
Description	Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface nonself antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here is a T cell- and natural killer cell-specific serine protease that may function as a common component necessary for lysis of target cells by cytotoxic T lymphocytes and natural killer cells.
Molecular Weight	36.740kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PYMVLLSLDRKTICAGALIAKDWVLTAAHCNLNKRQVIL GAHSITREEPTKQIMLVK KEFPYPCYDPATREGDLKLLQL TEKAKINKYVTILHLPKKGDD
Sequence Similarities	Belongs to the peptidase S1 family. Granzyme subfamily. Contains 1 peptidase S1 domain.
GENE INFORMATION	
Gene Name	GZMA granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3) [Homo sapiens]
Official Symbol	GZMA
Synonyms	GZMA; granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3); CTLA3, HFSP; granzyme A; CTL tryptase; Granzyme A (Cytotoxic T lymphocyte associated serine esterase 3; Hanukah factor serine protease);
Gene ID	3001
mRNA Refseq	NM_006144
Protein Refseq	NP_006135
MIM	140050
Uniprot ID	P12544
Chromosome	5q11-q12

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Location**Pathway**

IL12-mediated signaling events, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem;

Function

peptidase activity; protein binding; protein homodimerization activity; serine-type endopeptidase activity;

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