

## Active Recombinant Human GZMA protein, His-tagged

Cat. No. GZMA-574H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human GZMA protein(NP_006135.1)(29-262 aa) is expressed from HEK293 with His tag at the C-Terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, 5% trehalose, 5% Mannitol.
<b>Bio-activity</b>	Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Gly-Arg-ThioBenzyl ester (Z-GR-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is 12019 pmol/min/g, as measured under the described conditions.
<b>Molecular Mass</b>	The recombinant human GZMA consists of 245 amino acids and predicts a molecular mass of 27.29 kDa.
<b>AASequence</b>	IIGNEVTPHSRPYMVLLSLDRKTICAGALIAKDWVLTAAHCNLNKR SQVILGAHSITR EEPTKQIMLVKKEFPYPCYPATREGDLKLLQLMEKAKINKYVTILHLPKKGDDVKPG TMCQVAGWGRTHNSASWSDTLREVNITIIDRKVCNDRNHYNFNPVIGMNMVCAGSL RGGRDSCNGDSGSPLLCEGVFRGVTSFGLENKCGDPRGPGVYILLSKKHLNWIIMTI KGAVAHHHHHHHHHHH
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method).

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<b>Purity</b>	> 95% as determined by SDS-PAGE.
<b>Storage</b>	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.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.27mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	GZMA granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3) [ Homo sapiens ]
<b>Official Symbol</b>	GZMA
<b>Synonyms</b>	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); HF; h factor; fragmentin-1; cytotoxic T-lymphocyte proteinase 1; Granzyme A (Cytotoxic T-lymphocyte-associated serine esterase-3; Hanukah factor serine protease); HFSP; CTLA3;
<b>Gene ID</b>	3001
<b>mRNA Refseq</b>	NM_006144
<b>Protein Refseq</b>	NP_006135
<b>MIM</b>	140050
<b>UniProt ID</b>	P12544

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