

Recombinant Human GZMA Protein, His-tagged

Cat. No. GZMA-2225H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GZMA Protein (Ile29-Val262) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile29-Val262
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.5 kDa Accurate Molecular Mass: 30 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	GZMA granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3) [Homo sapiens (human)]
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); 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;
Gene ID	3001

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mRNA Refseq	NM_006144
Protein Refseq	NP_006135
MIM	140050
UniProt ID	P12544

