

## Recombinant Human GZMA Protein

Catalog #	Source	Reactivity	Applications
CRP1649	Human cells	Human	E, WB, SDS-PAGE, MS
<b>Description</b>	Recombinant Human GZMA Protein is produced by our Mammalian expression system and the target gene encoding Glu27-Val262 is expressed with a 6His tag at the C-terminus.		
<b>Form</b>	Lyophilized from a 0.2 $\mu$ M filtered solution of 20mM MES, 150mM NaCl, pH 5.5		
<b>Gene Symbol</b>	GZMA		
<b>Alternative Names</b>	CTLA3; HFSP; Granzyme A; CTL tryptase; Cytotoxic T-lymphocyte proteinase 1; Fragmentin-1; Granzyme-1; Hanukkah factor; H factor; HF		
<b>Entrez Gene</b>	3001 (Human)		
<b>SwissProt</b>	P12544 (Human)		
<b>Purity</b>	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.		
<b>Chemical Structure</b>	EKIIGGNEVT PHSRPMVLL SLDRKTICAG ALIAKDWVLT AAHCNLNKRS QVILGAHSIT REEPTKQIML VKKEFPYPCY DPATREGDLK LLQLTEKAKI NKYVTILHLP KKGDDVKPGT MCQVAGWGRT HNSASWSDTL REVNITIIDR KVCNDRNHYN FNPVIGMNMV CAGSLRGGRD SCNGDSGSPL LCEGVFRGVT SFGLENKCGD PRGPGVYILL SKKHLNWIIM TIKGAVVDHH HHHH		
<b>Quality Control</b>	Endotoxin: Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.		
<b>Directions for Use</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.		
<b>Storage/Stability</b>	Lyophilized protein should be stored at -20°C, though stable at room temperature		
<b>Application key:</b>	E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, CHIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference		
<b>Species reactivity key:</b>	H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish		

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# Product Data Sheet

for 3 weeks. Reconstituted protein solution can be stored at 2-8°C for 2-7 days.

Aliquots of reconstituted samples are stable at -20°C for 3 months.

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