

Granzyme A, human recombinant protein
CTL tryptase, Cytotoxic T-lymphocyte proteinase 1, Fragmentin-1, Granzyme-1,
Hanukkah factor (H fact
Catalog # PBV10210r

Specification

Granzyme A, human recombinant protein - Product info

Primary Accession [P12544](#)
Calculated MW **26.9 kDa KDa**

Granzyme A, human recombinant protein - Additional Info

Gene ID	3001
Gene Symbol	GZMA
Other Names	
CTL tryptase, Cytotoxic T-lymphocyte proteinase 1, Fragmentin-1, Granzyme-1, Hanukkah factor, H factor, HF	
Gene Source	Human
Source	Mammalian cell expression system
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC; ≥95%
Recombinant	Yes
Sequence	Recombinant Human Granzyme A is produced with mammalian cells expression system. Target protein is expressed with sequence (Glu27-Val262) of Human granzyme a (Uniprot #P12544) fused with a polyhistidine tag at the C-terminus.

Target/Specificity
Granzyme A

Application Notes

Dissolve in 1x PBS (It is not recommended to reconstitute to a final concentration less than 100 µg/ml.). This can further be diluted to other aqueous buffers.

Format

Lyophilized protein

Storage

-20°C; Lyophilized from a 0.2 µm filtered solution of 20 mM MES and 150 mM NaCl, pH 5.5.

Granzyme A, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Granzyme A, human recombinant protein - Images

Granzyme A, human recombinant protein - Background

Granzyme A is a member of the granzyme family. Granzyme A is the most abundant serine protease in cytotoxic T lymphocytes (CTL) and natural killer (NK) cells. Granzyme A has a specific function in CTL and NK cells. It induces caspase-independent cell death when introduced into target cells by perforin. Human granzyme A is synthesized as a precursor (262 residues) with a signal peptide (residues 1-26), a propeptide (residues 27-28) and a mature chain (residues 29-262).

Granzyme A, human recombinant protein - References

Gershenfeld H.K., et al. Proc. Natl. Acad. Sci. U.S.A. 85:1184-1188(1988).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Schmutz J., et al. Nature 431:268-274(2004).
Ruik Y., et al. J. Hum. Genet. 52:172-178(2007).
Goralski T.J., et al. Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases.