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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 and150 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 Cytomety
- 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).
Ruike Y.,et al.J. Hum. Genet. 52:172-178(2007).
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