

# Recombinant human Granzyme H protein

Catalog Number: ATGP3370

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

19-246aa

### UniProt No.

P20718

### NCBI Accession No.

NP\_219491

### Alternative Names

Granzyme H isoform 1, GZMH, CCP-X, CGL-2, CSP-C, CTLA1, CTSGL2

## PRODUCT SPECIFICATION

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### Molecular Weight

26.2 kDa (234aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

GZMH, as known as granzyme H isoform 1, is a member of the granzyme family of serine proteases found specifically in the granules of cytotoxic T lymphocytes (CTL) and natural killer (NK) cells. The more abundant expression of this protein than granzyme B in NK cells suggests that granzyme H may complement the pro-apoptotic function of granzyme B in this cell type. Recombinant human GZMH, fused to His-tag at C-terminus,

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was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

EEIIGGHEAK PHSRPYMAFV QFLQEKSRRK CGGILVRKDF VLTAHCQGS SINVTLGAHN IKEQERTQQF IPVKRPIPH  
AYNPKNFSND IMLLQLERKA KWTTAVRPLR LPSSKAQVKP GQLCSVAGWG YVSMSTLATT LQEVLLTVQK DCQCERLFHG  
NYSRATEICV GDPKKTQTGF KGDSGGPLVC KDVAQGILSY GNKKGTPPGV YIKVSHFLPW IKRTMKRLHH HHHH

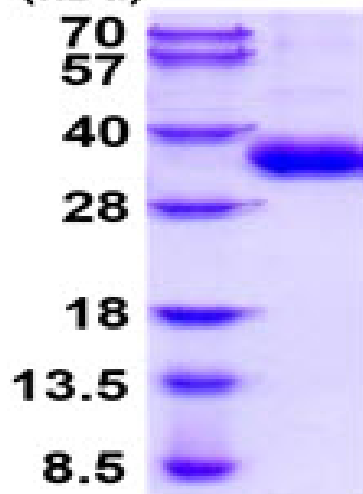
## General References

Ronnberg E., et al. (2014) *Int. Arch. Allergy Immunol.* 165:68-74.  
Tahbaz-Lahafi B., et al. (2014) *Iran J Cancer Prev* 7:48-52.

## DATA

### SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)