

# Product information

## GZMH, 19-246aa

Human, His-tagged, Recombinant, Insect cell

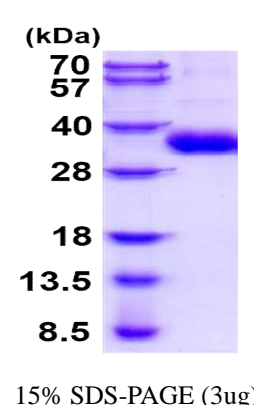
Cat. No. IBATGP3370

**Full name:** Granzyme H isoform 1

**NCBI Accession No.:** NP\_219491

**Synonyms:** GZMH, CCP-X, CGL-2, CSP-C, CTLA1, CTSG2

**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 proapoptotic function of granzyme B in this cell type. Recombinant human GZMH, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.</p> <p><b>Molecular Weight:</b> 26.2kDa (234aa) 28-40kDa (SDS-PAGE under reducing conditions.)</p> <p><b>Predicted N terminal:</b> Glu19</p> <p><b>Purity:</b> &gt; 90% by SDS – PAGE.</p> <p><b>Concentration:</b> 0.25mg/ml (determined by Absorbance at 280nm)</p> <p><b>Endotoxin Level:</b> &lt; 1.0 EU per 1µg of protein (determined by LAL method)</p>	
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**Sequences of amino acids:**

EEIIGGHEAK PHSRPYMAFV QFLQEKSRRK CGGILVRKDF VLTAHCQGS SINVTLGAHN IKEQERTQQF IPVKRPIPHP 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.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**