

GZMB active protein

GZMB, 19-247aa, Human, His-tag, Baculovirus (Bioactivity Validated)

CATALOG # AAA48973	HOST Baculovirus	APPLICATIONS SDS-Page
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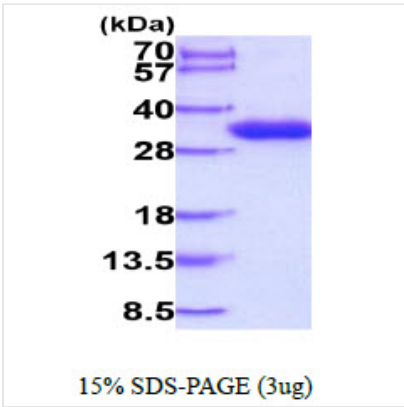
PRODUCT SYNONYMS

GZMB; 19-247aa; Human; His-tag; Baculovirus (Bioactivity Validated); Granzyme B isoform 1; C11; CCPI; CGL-1; CGL1; CSP-B; CSPB; CTLA1; CTSL1; HLP; SECT; GZMB active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In phosphate buffered saline (pH 7.4) containing 20% glycerol, 1mM DTT.
Concentration	0.5 mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence	GEIIGGHEAK PHSRPYMayL MIWDQKSLKR CGGFLIRDDF VLTAHCWGS SINVTLGahn iKEQEPTQQF IPVKRPIPH AYNPKNFSND IMLQLERKA KRTRAVQPLR LPSNKAQVKP GQTCVAGWG QTAPLGKHS TLQEVKMTVQ EDRKCESDLR HYYDSTIELC VGDPEIKKTS FKGDGGGPLV CNKVAQGIVS YGRNNGMPPR ACTKVSSFEVH WIKKTMKRYH HHHHH
Sequence Length	247
Applicable Applications for GZMB active protein	SDS-PAGE
Tag Information	His-tag
Domain	19-247AA
Endotoxin Level	< 1.0 EU per 1ug of protein (determined by LAL method)
Biological Activity	Specific activity is > 7,000 pmol/min/ug, and is defined as the amount of enzyme that cleave 1pmole of Boc-Ala-Ala-Asp-SBzl at 37C.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Can be stored at 4°C short term (1 week). For long term storage, aliquot and store at -20°C or -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for GZMB active protein	GZMB, also known as granzyme B isoform 1, is member of the granzyme subfamily of proteins, part of the peptidase S1 family of serine proteases. Tis protein is secreted by natural killer (NK) cells and cytotoxic T lymphocytes (CTLs) and proteolytically processed to generate the active protease, which induces target cell apoptosis. Also, it processes cytokines and degrades extracellular matrix proteins, and these roles are implicated in chronic inflammation and wound healing. Expression of this gene may be elevated in human patients with cardiac fibrosis. Recombinant human GZMB, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for GZMB active protein	Apoptosis; Enzymes & Proteases
References	Poe M., et al, (1991) J. Biol. Chem. 266:98-103. Xu W., et al, (2014) Eur. J. Immunol. 44 (1) 275-284.

NCBI AND UNIPROT INFORMATION

NCBI GI #	221625528
NCBI GeneID	3002
NCBI Accession #	NP_004122.2
NCBI GenBank Nucleotide #	NM_004131.5
UniProt Accession #	P10144; Q8N1D2; Q9UCC1
Molecular Weight	26.5kDa (235aa)
NCBI Official Full Name	granzyme B isoform 1 preproprotein
NCBI Official Synonym Full Names	granzyme B
NCBI Official Symbol	GZMB
NCBI Official Synonym Symbols	C11; HLP; CCPI; CGL1; CSPB; SECT; CGL-1; CSP-B; CTLA1; CTSSL1
NCBI Protein Information	granzyme B
UniProt Protein Name	Granzyme B
UniProt Gene Name	GZMB
UniProt Synonym Gene Names	CGL1; CSPB; CTLA1; GRB; CTSSL1; Lymphocyte protease; HLP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

