Datasheet for ABIN7529398

GZMB Protein (AA 19-247) (His tag)

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Overview

Quantity:	100 µg
Target:	GZMB
Protein Characteristics:	AA 19-247
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This GZMB protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	GEIIGGHEAK PHSRPYMAYL MIWDQKSLKR CGGFLIRDDF VLTAAHCWGS SINVTLGAHN IKEQEPTQQF IPVKRPIPHP AYNPKNFSND IMLLQLERKA KRTRAVQPLR LPSNKAQVKP GQTCSVAGWG QTAPLGKHSH TLQEVKMTVQ EDRKCESDLR HYYDSTIELC VGDPEIKKTS FKGDSGGPLV CNKVAQGIVS YGRNNGMPPR ACTKVSSFVH WIKKTMKRYH HHHHH
Purity:	> 95 % by SDS - PAGE
Endotoxin Level:	< 1.0 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	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.

Target Details

Target:	GZMB
Alternative Name:	GZMB (GZMB Products)
Background:	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.
Molecular Weight:	26.5kDa (235aa) 28-40kDa (SDS-PAGE under reducing conditions.)
NCBI Accession:	NP_004122
UniProt:	P10144
Pathways:	Apoptosis, Caspase Cascade in Apoptosis

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 20 % glycerol, 1 mM DTT.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.