

Recombinant mouse Granzyme B protein

Catalog Number: ATGP3913

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-247aa

UniProt No.

P04187

NCBI Accession No.

NP_038570

Alternative Names

Gzmb, CTLA-1, Cytotoxic cell protease 1, CCP1, Fragmentin-2, Ctla-1, Ctla1, AI553453, CCP-1/C11, CCP1, GZB

PRODUCT SPECIFICATION

Molecular Weight

26.3 kDa (235aa)

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)

Biological Activity

Specific activity is > 9,000pmol/min/ug, and is defined as the amount of enzyme that cleave 1pmole of Boc-Ala-Ala-Asp-SBzl at 37C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

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

Granzyme B, also known as Gzmb, is a member of the granzyme family of cell death-inducing serine proteases specially expressed in the granules of cytotoxic T lymphocytes (CTLs) and NK cells. It plays crucial role for target cell lysis in cell-mediated immune responses. This protein is linked to an activation cascade of caspases (aspartate-specific cysteine proteases) responsible for apoptosis execution. It cleaves caspase-3, -7, -9 and 10 to give rise to active enzymes mediating apoptosis. Recombinant mouse Granzyme B, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

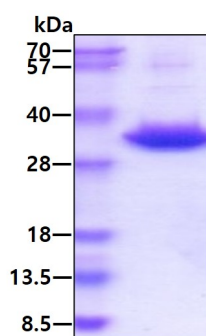
GEIIGGHEVK PHSRPYALL SIKDQQPEAI CGGFLIREDF VLTAAHCEGS IINVTLGAHN IKEQEKTQQV IPMVKCIHPH
DYNPKTFSND IMLLKLKSKA KRTRAVRPLN LPRRNVNVKP GDVCYVAGWG RMAPMGKYSN TLQEVELTVQ KDRECESYFK
NRYNKTNQIC AGDPKTKRAS FRGDSGGPLV CCKVAAGIVS YGYKDGSPPR AFTKVSSFLS WIKKTMKSS<H HHHHH>

General References

D' Eliseo D., et al. (2016) J Exp Clin Cancer Res. 35:24.
Rabani M., et al. (2018) Clin Immunol. 188:45-51.

DATA

SDS-PAGE



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