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# 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, Ctla-1, Al553453, 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**

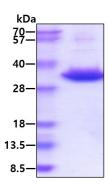
GEIIGGHEVK PHSRPYMALL SIKDQQPEAI CGGFLIREDF VLTAAHCEGS IINVTLGAHN IKEQEKTQQV IPMVKCIPHP DYNPKTFSND IMLLKLKSKA KRTRAVRPLN LPRRNVNVKP GDVCYVAGWG RMAPMGKYSN TLQEVELTVQ KDRECESYFK NRYNKTNQIC AGDPKTKRAS FRGDSGGPLV CKKVAAGIVS YGYKDGSPPR AFTKVSSFLS WIKKTMKSS<H HHHHH+>

#### **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 comassie blue stain.

