

For Research Use Only

# Recombinant Human Granzyme B protein (rFc Tag)



Catalog Number: Eg3360

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/μg protein, LAL method

**Source:**

HEK293-derived Human Granzyme B protein Gly19-Tyr247 (Accession# P10144) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

3002

**Accession:**

P10144

**Predicted Molecular Mass:**

52.0 kDa

**SDS-PAGE:**

55-65 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Granzyme B (GZMB) is also named as CGL1, CSPB, CTLA1, GRB and belongs to the Granzyme subfamily. This enzyme is necessary for target cell lysis in cell-mediated immune responses. The cytotoxic lymphocyte protease Granzyme B (GZMB) can promote apoptosis through direct processing and activation of members of the caspase family. Granzyme B also functions as processing protease of cytokines, including interleukin (IL)-18 and IL-1a, and extracellular matrix proteins, including fibronectin and various proteoglycans. Plasma Granzyme B concentrations were significantly higher in patients with Atopic dermatitis (AD) and psoriasis than in healthy controls, which indicated that Granzyme B may play an important role in the induction of intractable itch and dermatitis in AD.

## References

- 1.Hiebert, Paul R, and David J Granville. (2012) Trends Mol Med. 18(12):732-741.
- 2.Kamata, Yayoi et al. (2016) J Dermatol Sci.84(3):266-271.

## Synonyms

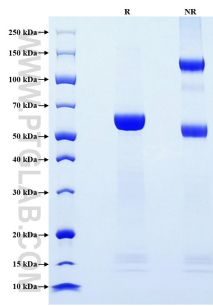
Granzyme B, GZMB, Cathepsin G-like 1, CCPI, CGL 1

For technical support and original validation data for this product please contact

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## Selected Validation Data



Purity of Recombinant Human Granzyme B was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.