

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/ μ g 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 μ m 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.

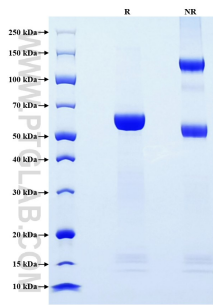
References

- 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

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.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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