

Recombinant Mouse Granzyme B/CTLA-1/GZMB Protein

Catalog No.: RP03596LQ

Sequence Information

Species **Gene ID**
Mouse 14939

Swiss Prot **Tags**
P04187 C-His

Synonyms

C11; HLP; CCPI; CGL1; CSPB; SECT; CGL-1; CSP-B; CTLA1; CTSGL1; GZMB

Background

Granzyme B, also known as GZMB, is the most prominent member of the granzyme family of cell death-inducing serine proteases expressed in the granules of cytotoxic T lymphocytes (CTLs) and NK cells. Granzyme B enters the target cells depending on another membrane-binding granule protein, perforin, results in the activation of effector caspases and mitochondrial depolarization through caspase-dependent and -independent pathways, and consequently induces rapid cell apoptosis. Over 3 substrates of GZMB have been identified including the key substrate caspase-3, ICAD, and Bid. GZMB is suggested to protect the host by lysing cells bearing on their surface 'nonself' antigens such as bacterial and viral infected-cells and tumor cells and accordingly plays an essential role in immunosurveillance.

Product Information

Source **Purification**
HEK293 cells > 95% as determined by HPLC

Calculated MW **Observed MW**
26.5 KDa 35 KDa, reducing conditions

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as 0.22 μm filtered solution in PBS (pH 7.4).

Reconstitution

Contact

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Basic Information

Description

Recombinant Mouse Granzyme B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly19-Ser247) of Mouse Granzyme B (Accession #NP_038570.1) fused with His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

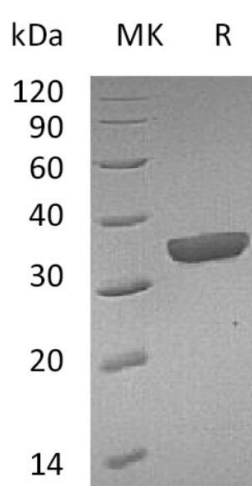
Storage

Store at -80°C

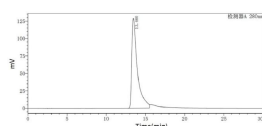
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Mouse Granzyme B/CTLA-1/GZMB Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Mouse Granzyme B/CTLA-1/GZMB is greater than 95% as determined by SEC-HPLC.