

**Recombinant Murine Granzyme B**  
**Catalog # PBG10147****Specification**

---

**Recombinant Murine Granzyme B - Product Information****Recombinant Murine Granzyme B - Additional Information****Description**

Granzyme B is a cysteine protease found in the cytoplasmic granules of cytolytic T lymphocytes (CTL) and natural killer (NK) cells. Granzyme B is required for the induction of target cell lysis, which occurs as part of cell mediated immune responses, and can activate apoptosis in target cells by both caspase dependent and caspase independent mechanisms. Proteolytic cleavage of substrates by Granzyme B takes place primarily after aspartic acid residues. Recombinant murine Granzyme B is a glycosylated 227 amino acid protein, comprising the mature active portion of the murine Granzyme B precursor. The apparent molecular weight is 28.9 kDa by mass spectrometry.

**Biological Activity**

Determined by its ability to cleave a synthetic chromogenic Granzyme B substrate. The expected specific activity, when using the Ac-IEPD-pNA substrate at 25°C, is greater than 750 nM/min per µg of enzyme.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Murine Granzyme B is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Murine Granzyme B - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

## **Recombinant Murine Granzyme B - Images**