

**Human CellExp Granzyme B, human recombinant protein**  
**GZMB, CCPI, CGL-1, CGL1, CSP-B, CSPB, CTLA1, CTSL1, HLP, SECT, Fragmentin-2,**  
**Granzyme B, Granzyme-2**  
**Catalog # PBV10863r**

## Specification

---

### Human CellExp Granzyme B, human recombinant protein - Product info

Primary Accession  
Calculated MW

[P10144](#)

The protein is fused with 6×His tag at the C-terminus, has a calculated MW of 26.4 kDa. The predicted N-terminus is Thr 21. DTT-reduced Protein migrates as 35 kDa due to glycosylation. KDa

### Human CellExp Granzyme B, human recombinant protein - Additional Info

Gene ID  
Gene Symbol

**3002**  
**GZMB**

#### Other Names

GZMB, CCPI, CGL-1, CGL1, CSP-B, CSPB, CTLA1, CTSL1, HLP, SECT, Fragmentin-2, Granzyme B, Granzyme-2, GRB

Gene Source  
Source  
Assay&Purity  
Assay2&Purity2  
Recombinant  
**Target/Specificity**  
Granzyme B

**Human**  
**HEK 293 cells**  
**SDS-PAGE; ≥95%**  
**HPLC;**  
**Yes**

### Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

### Format

Lyophilized powder

### Storage

-20°C; Lyophilized from 0.22 µm filtered solution in PBS. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

### Human CellExp Granzyme B, human recombinant protein - 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](#)

### **Human CellExp Granzyme B, human recombinant protein - Images**

### **Human CellExp Granzyme B, human recombinant protein - Background**

Granzyme B (GZMB) also known as Cathepsin G-like 1 (CTSG1), Cytotoxic T-lymphocyte proteinase 2 (Lymphocyte protease), Fragmentin-2, Granzyme-2, Human lymphocyte protein (HLP), SECT, CGL1, CSPB, CTLA1, GRB, which belongs to the peptidase S1 family. Granzyme subfamily GZMB / CTSG1 contains 1 peptidase S1 domain. The catalytic activity of Granzyme B is "Preferential cleavage: -Asp|-Xaa- >> -Asn|-Xaa- > -Met|-Xaa-, -Ser|-Xaa-", and is inactivated by the serine protease inhibitor diisopropyl fluorophosphates. GZMB is necessary for target cell lysis in cell-mediated immune responses. It cleaves after Asp. GZMB seems to be linked to activation cascade of caspases (aspartate-specific cysteine proteases) responsible for apoptosis execution and cleaves caspase-3, -7, -9 and 10 to give rise to active enzymes mediating apoptosis.