

## 32-6793: GZMB Human, sf9

**Application :** Functional Assay

**Alternative Name :** Granzyme B, T-Cell Serine Protease 1-3E, Cathepsin G-Like 1, Granzyme B (Granzyme 2, Cytotoxic T-Lymphocyte-Associated Serine Esterase 1, Cytotoxic T-Lymphocyte Proteinase 2, Cytotoxic Serine Protease B $\alpha$ , Human Lymphocyte Protein, Fragmentin 2, EC 3.4.21.79, CTSG1, CTLA1 $\alpha$ , CSPB $\alpha$ , CGL1, SECT $\alpha$ , C11, HLP $\alpha$ , Cytotoxic T-Lymphocyte-Associated Serine Esterase 1, Lymphocyte Protease, Fragmentin-2 $\alpha$ , Granzyme 2 $\alpha$ , Granzyme-2 $\alpha$ , EC 3.4.21, CTLA-1 $\alpha$ , CGL-1, CSP-B, CCPI $\alpha$ , GRB.  
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### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Granzyme-B (GZMB) is essential for target cell lysis in cell-mediated immune responses. GZMB is related to an activation cascade of caspases responsible for apoptosis execution. GZMB cuts caspase-3, -7, -9 and 10 to activate enzymes mediating apoptosis.

GZMB produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 235 amino acids (19-247a.a.) and having a molecular mass of 26.5kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). GZMB is expressed with an 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 1  $\mu$ g / 5  $\mu$ g

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** GZMB protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) ,20% glycerol and 1mM DTT.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** GEIIGGHEAK PHSRPY MAYL MIWDQKSLKR CGGFLIRDDF VLTAHCWGS SINVTLG AHN IKEQEPTQQF IPVKRPIPHP AYNPKNFSND IMLQLERKA KRTRAVQPLR LPSNKAQVKP GQTCVAGWG QTAPLGKHSHTLQEVKMTVQ EDRKCESDLR HYYDSTIELC VGDPEIKKTS FKGDSGGPLV CNKVAQGIVS YGRNNGMPPR ACTKVSSFVH WIKKTMKRYH HHHHH

### Application Note

Specific activity is > 7,000 pmol/min/ $\mu$ g, and is defined as the amount of enzyme that cleave 1pmole of Boc-Ala-Ala-Asp-SBzl at 37C.