

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 \hat{A} , Human Lymphocyte Protein, Fragmentin 2, EC 3.4.21.79, CTSL1, CTLA1 \hat{A} , CSPB \hat{A} , CGL1, SECT \hat{A} , C11, HLP \hat{A} , Cytotoxic T-Lymphocyte-Associated Serine Esterase 1, Lymphocyte Protease, Fragmentin-2 \hat{A} , Granzyme 2 \hat{A} , Granzyme-2 \hat{A} , EC 3.4.21, CTLA-1 \hat{A} , CGL-1, CSP-B, CCPI \hat{A} , 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 μ g / 5 μ 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 CGGLIRDDF VLTAHCWGS SINVTLG AHN IKEQEPTQQF IPVKRPIPH AYNPKNFSND IMLQLERKA KRTRAVQPLR LPSNKAQVKP GQTCVAGWG QTAPLGKHS TLQEVKMTVQ EDRKCESDLR HYDSTIELC VGDPEIKKTS FKGDSGGPLV CNKVAQGIVS YGRNNGMPPR ACTKVSSFVH WIKKTMKRYH HHHHH

Application Note

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