
Product Data Sheet

Product Name: GZMB Human, sf9
 Cat. No.: GP21764
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms: 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; Human Lymphocyte Protein; Fragmentin 2; EC 3.4.21.79; CTSL1; CTLA1; CSPB; CGL1; SECT; C11; HLP; Cytotoxic T-Lymphocyte-Associated Serine Esterase 1; Lymphocyte Protease; Fragmentin-2; Granzyme 2; Granzyme-2; EC 3.4.21; CTLA-1; CGL-1; CSP-B; CCPI; GRB.

Amino Acid Sequence: GEIIGGHEAK PHSRPY MAYL MIWDQKSLKR CGGFLIRDDF VLTA AHCWGS SINVT LGAHN IKEQEPTQQF IPVKRPI PHP AYNPKNFSND IMLLQLERKA KRTRAVQPLR LPSNKAQVKP GQTCSVAGWG QTAPLGK HSH TLQEVKMTVQ EDRKCESDLR HYYDSTIELC VGDPEIKKTS FKGDSGGPLV CNKVAQGIVS YGRNNGMPPR ACTKVSSFVH WIKKTMKRYH HHHHH

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

Introduction

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.

Biological Activity

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

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

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.

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