

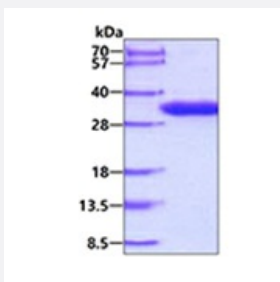
Bioactive

GZMB (Human) Recombinant Protein

Catalog # P8044

Size 20 ug

Applications



Specification

Product Description

Human GZMB (P10144, 19 a.a. - 247 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.

Sequence

GEIIGGHEAKPHSRPYMAYLMWDQKSLKRCGGFLIRDDFVLTAHHCWGSSINVTLGAHNIKEQEP
TQQFIPVKRPIHPAYNPKNFSNDIMLLQLERKAKRTRAVQPLRLPSNKAQVKPGQTCSVAGWGQ
TAPLGKHSHTLQEVKMTVQEDRKCESDLRHYYDSTIELCVGDPEIKKTSFKGDSGGPLVCNKVAQ
GIVSYGRNNGMPPRACTKVSSFVHWIKKTMKRY

Host

Viruses

Theoretical MW (kDa)

26.5

Form

Liquid

Preparation Method

Baculovirus expression system

Purity

> 95% by SDS-PAGE

Endotoxin Level

< 1 EU per 1 ug of protein (determined by LAL method)

Activity

Specific activity is > 7000 pmol/min/ug, and is defined as the amount of enzyme that cleaves 1 pmole of Boc-Ala-Ala-Asp-SBzl at 37°C.

Quality Control Testing

3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.

Storage Buffer

In Phosphate-Buffer Saline pH 7.4 (20% glycerol, 1 mM DTT)

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GZMB

Entrez GeneID[3002](#)**Protein Accession#**[P10144](#)**Gene Name**

GZMB

Gene Alias

CCPI, CGL-1, CGL1, CSP-B, CSPB, CTLA1, CTSL1, HLP, SECT

Gene Description

granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)

Omim ID[123910](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein encoded by this gene is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response. [provided by RefSeq]

Other Designations

T-cell serine protease 1-3E|cathepsin G-like 1|cytotoxic serine protease B|fragmentin 2|granzyme B

Pathway

- [Allograft rejection](#)
- [Autoimmune thyroid disease](#)
- [Graft-versus-host disease](#)

- [Natural killer cell mediated cytotoxicity](#)
- [Type I diabetes mellitus](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Autoimmune Diseases](#)
- [Behcet Syndrome](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Leukemia](#)
- [Lymphohistiocytosis](#)
- [Melanoma](#)
- [Neovascularization](#)
- [Respiratory Syncytial Virus Infections](#)
- [Vitiligo](#)