

# Recombinant Full Length Human GZMB Protein, GST-tagged

**Cat. No.** GZMB-680HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human GZMB(1 a.a. - 247 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 247 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a member of the granzyme subfamily of proteins, part of the peptidase S1 family of serine proteases. The encoded preproprotein is secreted by natural killer (NK) cells and cytotoxic T lymphocytes (CTLs) and proteolytically processed to generate the active protease, which induces target cell apoptosis. This protein also processes cytokines and degrades extracellular matrix proteins, and these roles are implicated in chronic inflammation and wound healing. Expression of this gene may be elevated in human patients with cardiac fibrosis. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 54.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MQPILLLLAF LLLPRADAGE IIGGHEAKPH SRPYMAYLMI WDQKSLKRCG<br>GFLIQDDFVL TAAHCWGSSI NVTLGAHNIK EQEPTQQFIP VKRPIHPAY<br>NPKNFSNDIM LLQLERKAKR TRAVQPLRLP SNKAQVKPGQ TCSVAGWGQT<br>APLGKHSHTL QEVKMTVQED RKCESDLRHY YDSTIELCVG DPEIKKTSFK                                                                                                                                                                                                                                                                                                                                           |

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GDSGGPLVCN KVAQGIVSYG RNNGMPPRAC TKVSSFVHWI KKTMKRH

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**GENE INFORMATION**
**Gene Name**

GZMB granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) [ Homo sapiens ]

**Official Symbol**

GZMB

**Synonyms**

GZMB; granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1); CSPB, CTLA1; granzyme B; cathepsin G like 1; CCPI; CGL 1; CGL1; CSP B; CTSSL1; cytotoxic serine protease B; fragmentin 2; HLP; SECT; T cell serine protease 1 3E; C11; CTLA-1; fragmentin-2; cathepsin G-like 1; human lymphocyte protein; T-cell serine protease 1-3E; cytotoxic T-lymphocyte proteinase 2; CSPB; CGL-1; CSP-B; CTLA1

**Gene ID**

3002

**mRNA Refseq**

NM\_004131

**Protein Refseq**

NP\_004122

**MIM**

123910

**UniProt ID**

P10144

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