# **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 21-247aa

**UniProt No.** P10144

NCBI Accession No. NP\_004122

Alternative Names Granzyme B, CCPI, CGL-1, CGL1, CSP-B, CSPB, CTLA1, CTSGL1, HLP, SECT

# **PRODUCT SPECIFICATION**

Molecular Weight 27.8 kDa (248aa)

**Concentration** 1mg/ml (determined by Bradford assay)

#### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 85% by SDS-PAGE

**Tag** His-Tag

Application SDS-PAGE,Denatured

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

#### Description

GZMB also known as granzyme B is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response. 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. Recombinant human GZMB, fused to His-tag at N-terminus, was expressed in E. coli.



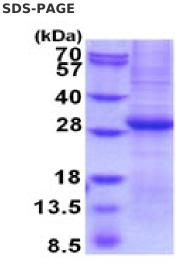
### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MIIGGHEAKP HSRPYMAYLM IWDQKSLKRC GGFLIQDDFV LTAAHCWGSS INVTLGAHNI KEQEPTQQFI PVKRPIPHPA YNPKNFSNDI MLLQLERKAK RTRAVQPLRL PSNKAQVKPG QTCSVAGWGQ TAPLGKHSHT LQEVKMTVQE DRKCESDLRH YYDSTIELCV GDPEIKKTSF KGDSGGPLVC NKVAQGIVSY GRNNGMPPRA CTKVSSFVHW IKKTMKRY

### **General References**

Xu W., et al. (2014) Eur. J. Immunol. 44 (1), 275-284 Fritsch K., et al. (2013) Ann. Hematol. 92 (12), 1603-1609

## DATA



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

15% SDS-PAGE (3ug)