

Recombinant human Granzyme B protein

Catalog Number: ATGP2978

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, CTSLG1, 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.

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Amino acid Sequence

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

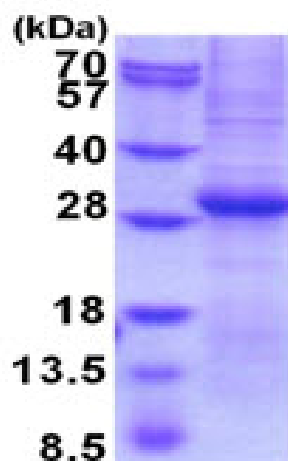
General References

Xu W., et al. (2014) Eur. J. Immunol. 44 (1), 275-284

Fritsch K., et al. (2013) Ann. Hematol. 92 (12), 1603-1609

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)