Recombinant human Granzyme K protein

Catalog Number: ATGP2294

PRODUCT INFORMATION

Expression system
E.coli

Domain
27-264aa

UniProt No.
P49863

NCBI Accession No.
NP_002095.1

Alternative Names
Granzyme K, GZMK, TRYP2, GZMK, PRSS, tryptase II, Fragmentin-3, Granzyme-3, NK-tryptase-2, NK-Tryp-2

PRODUCT SPECIFICATION

Molecular Weight
28.2 kDa (261aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 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
GZMK is a member of a group of related serine proteases from the cytoplasmic granules of cytotoxic lymphocytes. 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 described here lacks consensus sequences for N-glycosylation present in other granzymes. Recombinant human GZMK protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

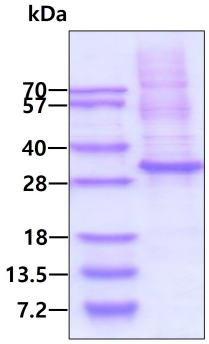
<MGSSHHHHHH SSGLVPRGSH MGS>IIGGKEV SPHSRPFMAS IQYGGHHVCG GVLIDPQWVL TAAHCQYRFT KGQSPTVVLG AHSLSKNEAS KQTLEIKKFI PFSRVTSDPQ SNDIMLVKLQ TAAKLNKHVK MLHIRSKTSL RSGTKCKVTG WGATDPDSLR PSDTLREVTV TVLSRKLCNS QSYYNGDPFI TKDMVCAGDA KGQKDSCKGD SGGPLICKGV FHAIVSGGHE CGVATKPGIY TLLTKKYQTW IKSNLVPPHT N

General References

Rucevic M, Fast LD, et al. (2007). Shock. 27(5):488-93.
Zhao T, Zhang H, et al. (2007). J Biol Chem. 282(16):12104-11.

DATA

SDS-PAGE



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