Recombinant human Granzyme K protein

Catalog Number: ATGP3539

PRODUCT INFORMATION

Expression system
Baculovirus

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
26.9 kDa (247aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity
> 95% by SDS-PAGE

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

Tag
His-Tag

Application
SDS-PAGE

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, as known as Granzyme K, 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

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intracellular pathogens. The protein described here lacks consensus sequences for N-glycosylation present in other granzymes. Recombinant human GZMK, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

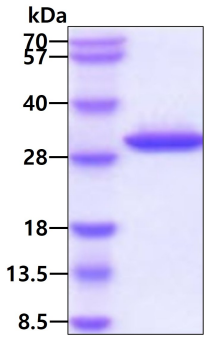
<ADP>IIGGKEV SPHSRPFMAS IQYGGHHVCG GVLIDPQWVL TAAHCQYRFT KGQSPTVVLG AHSLSKNEAS KQTLEIKKFI PFSRVTSDPQ SNDIMLVKLQ TAAKLNKHVK MLHIRSKTSL RSGTKCKVTG WGATDPDSLR PSDTLREVTV TVLSRKLCNS QSYYNGDPFI TKDMVCAGDA KGQKDSCKGD SGGPLICKGV FHAIVSGGHE CGVATKPGIY TLLTKKYQTW IKSNLVPPHT N<HHHHHH>

General References

Jiang W., et al, (2011) J. Immunol. 187:781-790.
Wensink AC., et al, (2014) Proc. Natl. Acad. Sci. U.S.A. 111:5974-5979.

DATA

SDS-PAGE



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