Recombinant human NKG2D/KLRK1 protein

Catalog Number: ATGP1818

PRODUCT INFORMATION

Expression system
E.coli

Domain
73-216aa

UniProt No.
P26718

NCBI Accession No.
NP_031386

Alternative Names
Killer cell lectin like receptor K1, Killer cell lectin-like receptor subfamily K member 1, NKG2-D type II integral membrane protein, NK cell receptor D, NKG2-D-activating NK receptor, CD314, NKG2D, KLR, NKG2-D

PRODUCT SPECIFICATION

Molecular Weight
19.2 kDa (168aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

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
KLRK1 is an activating receptor that has recently generated considerable interest. The most intriguing of these are a pair of closely related proteins called MICA and MICB. These are cell-surface molecules distantly related to MHC class I proteins, and the genes possess elements of heat shock promoters. MICA and MICB, therefore, are expressed during cell stress and are up-regulated in tumor cells and during viral infections. This receptor-ligand combination may play a critical role in the immune response to a variety of pathologies. Recombinant human

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KLRK1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

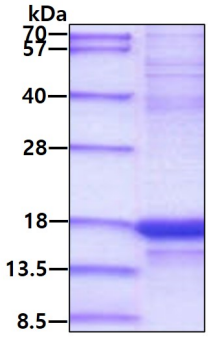
<MGSSHHHHHH SSGLVPRGSH MGSM>IWSAVF LNSLFNQEVQ IPLTESYCGP CPKNWICYKN NCYQFFDESK NWYESQASCM SQNASLLKVY SKEDQDLLKL VKSYHWMGLV HIPTNGSWQW EDGSILSPNL LTIIEMQKGD CALYASSFKG YIENCSTPNT YICMQRTV

General References

Guerra N. et al. (2008) Immunity. 28:571-580.
Ravetch JV. et al. (2000) Science. 290:84-89.

DATA

SDS-PAGE



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