

# Recombinant human NKp80/KLRF1 protein

Catalog Number: ATGP4063

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

60-231aa

### UniProt No.

Q9NZS2

### NCBI Accession No.

NP\_057607.1

### Alternative Names

Killer cell lectin-like receptor F1, Killer cell lectin-like receptor subfamily F member 1, Killer cell lectin-like receptor subfamily F member 1 isoform 1, Lectin-like receptor F1, Activating coreceptor NKp80, NKp80, KLRF1, C-type lectin domain family 5 member C, CLEC5C, ML, CLEC5CMGC119908, MGC119907, MGC119909

## PRODUCT SPECIFICATION

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### Molecular Weight

47.1kDa (414aa)

### Concentration

0.25mg/ml (determined by Absorbance at 280nm)

### Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 85% by SDS - PAGE

### Endotoxin level

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

### Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When cells are added to human KLRF1 coated plates 2 ug/ml. This effect is more to 60%.

### Tag

hIgG-His-Tag

### Application

SDS-PAGE, Bioactivity

### 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.

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## BACKGROUND

### Description

NKp80/KLRF1, also known as killer cell lectin-like receptor subfamily F member 1, is a member of the C-type lectin family. Multiple splicing variants produce four isoforms for NKp80/KLRF1 and isoform 1 is the standard protein. It is expressed on NK cells and a subset of T lymphocytes whereas it is not expressed on B lymphocytes, monocytes and granulocytes. It stimulates NK cell cytotoxicity and induces calcium influx after triggering by appropriate antibodies. It works through interaction with its ligand, AICL (activation-induced C-type lectin), which is selectively expressed on myeloid cells. NKp80-AICL interaction regulates the immune responses at sites of inflammation by stimulating the release of proinflammatory cytokines. Recombinant human NKp80/KLRF1, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

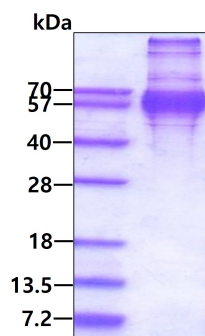
```
<DGS>LLVSQGV LLKCQKGSCS NATQYEDTGD LKVNNGTRRN ISNKDLCASR SADQTVLCQS EWLKYQGKCY  
WFSNEMKSW S DSYYVCLERK SHLLIIHDQL EMAFIQNLR QLNYVWIGLN FTSLKMTWTW VDGSPIDSKI FFIKGPAKEN  
SCAAIKESKI FSETCSSVFK WICQY<LEPKS CDRTHTCP PC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE  
DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY  
TLPPSRDELT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSSFLYSK LTVDKSRWQQ GNVFSCSVMH  
EALHNHYTQK SLSLSPGKHH HHHH>
```

### General References

Welte S. et al. (2006) Nat. Immunol. 7:1334-1342.  
Roda-Navarro P. et al. (2000) Eur. J. Immunol. 30:568-576.

## DATA

### SDS-PAGE



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