

# Recombinant human ULBP-4/RAET1E protein

Catalog Number: ATGP3653

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

31-225aa

### UniProt No.

Q8TD07

### NCBI Accession No.

NP\_631904

### Alternative Names

Retinoic acid early transcript 1E, Lymphocyte effector toxicity activation ligand, NKG2D ligand 4, N2DL-4, NKG2DL4, RAE-1-like transcript 4, UL16-binding protein 4, LETAL, N2DL4, ULBP4

## PRODUCT SPECIFICATION

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### Molecular Weight

23.4 kDa (204aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

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

### Purity

> 90% 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

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### Description

RAET1E, also known as NKG2D ligand 4 isoform 1, is a member of the RAET1/ULBP family of cell surface protein that function as ligands for NKG2D. This protein is abnormally expressed on most colon cancer and some other tumor cell lines and virus infected peripheral blood cells. It binds and co-stimulates NKG2D expressing effector

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cells including NK cells, NKT cells, gamma delta T cells, and CD8+ alpha beta T cells, activating cytolytic activity and/or cytokine production. Also, it functions as a stress-induced ligand for NKG2D receptor. Recombinant human RAET1E, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

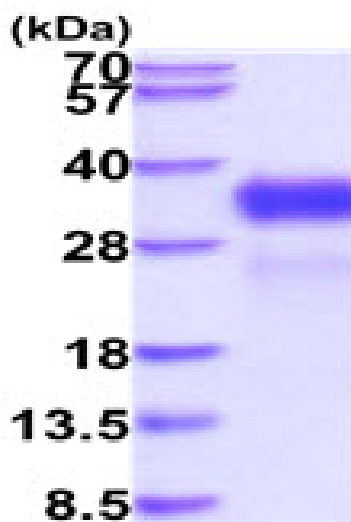
ADPHSLCFNF TIKLSRPGQ PWCEAQVFLN KNLFLQYNSD NNMVKPLGLL GKKVYATSTW GELTQTLGEV GRDLRMLLCD  
IKPQIKTSDP STLQVEMFCQ REAERCTGAS WQFATNGEKS LLFDAMNMTW TVINHEASKI KETWKKDRGL EKYFRKLSKG  
DCDHWLREFL GHWEAMPEPT VSPVNASDIH WSSSSLPDHH HHHH

## General References

Chalupny NJ., et al, (2003) Biochem. Biophys. Res. Commun. 305:129-135.  
Kong Y., et al, (2009) Blood 114:310-317.

## DATA

### SDS-PAGE



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

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15% SDS-PAGE (3ug)