

# Recombinant human IL-13R alpha 1/IL13RA1 protein

Catalog Number: ATGP3068

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

22-343aa

### UniProt No.

P78552

### NCBI Accession No.

NP\_001551

### Alternative Names

Interleukin 13 receptor subunit alpha 1, IL-13 receptor subunit alpha-1, IL-13R subunit alpha-1, IL-13R-alpha-1, Cancer/testis antigen 19, CT19, CD213a1, IL13R, IL13RA, NR4

## PRODUCT SPECIFICATION

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### Molecular Weight

37.7 kDa (328aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

### 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

IL13RA1, also known as Interleukin-13 receptor subunit alpha-1, is a subunit of the interleukin 13 receptor. This subunit forms a receptor complex with IL4 receptor alpha, a subunit shared by IL13 and IL4 receptors. This protein has been shown to bind tyrosine kinase TYK2, and thus may mediate the signaling processes that lead to

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the activation of JAK1, STAT3 and STAT6 induced by IL13 and IL4. It is essential for allergen-induced airway hyperactivity and mucus hypersecretion. Recombinant human IL13RA1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

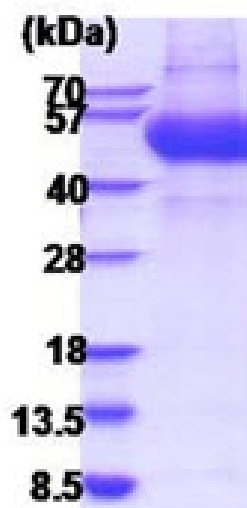
GGGGAAPTET QPPVTNLSVS VENLCTVIWT WNPPEGASSN CSLWYFSHFG DKQDKKIAPE TRRSIEVPLN ERICLQVGSQ  
CSTNESEKPS ILVEKCISPP EGDPEAVTE LQCIWHNLSY MKCSWLPGRN TSPDTNYTLY YWHRSLKIH QCENIFREGQ  
YFGCSFDLTK VKDSSFEQHS VQIMVKDNAG KIKPSFNIVP LTSRVKPDPP HIKNLSFHND DLYVQWENPQ NFISRCLFYE  
VEVNNSTET HNVFYVQEAQ CENPEFERNV ENTSCFMVPG VLPDTLNTVR IRVKTNKLCY EDDKLWSNWS QEMSIGKRN  
STHHHHHH

## General References

Liu, H. et al. (2000). Cancer Immunol. Immunother. 49:319-324.  
Debinski, W. et al. (2000). Mol. Med. 6:440-449.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)