

# Recombinant human IL-10R alpha/IL10RA protein

Catalog Number: ATGP3910

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

22-235aa

### UniProt No.

Q13651

### NCBI Accession No.

NP\_001549

### Alternative Names

Interleukin 10 receptor subunit alpha, IL-10 receptor subunit alpha, IL-10R subunit alpha, IL-10RA, CD210, CDw210a, Interleukin-10 receptor subunit 1, IL-10R subunit 1, IL-10R1, HIL-10R

## PRODUCT SPECIFICATION

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### Molecular Weight

25.2 kDa (220aa)

### Concentration

0.2mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Biological Activity

Measured by its ability to inhibit proliferation using MC/9 mouse mast cells. The ED50 for this effect is  $\leq 300$ ng/ml with Human IL-10.

### Tag

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

IL-10 R alpha, also known as Interleukin-10 receptor subunit alpha, is structurally related to interferon receptors. It has been shown to mediate the immunosuppressive signal of interleukin 10, and thus inhibits the synthesis of proinflammatory cytokines. This receptor is reported to promote survival of progenitor myeloid cells through the insulin receptor substrate-2/PI 3-kinase/AKT pathway. Activation of this receptor leads to tyrosine phosphorylation of JAK1 and TYK2 kinases. It has been shown to interact with Interleukin 10 and Janus kinase 1. Recombinant human IL-10 R alpha, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

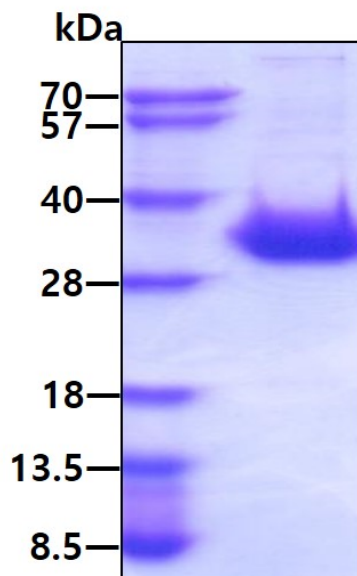
HGTELPSPPS VWFEAEFFHH ILHWTPIPNQ SESTCYEVAL LRYGIESWNS ISNCSQTLSDYDLTAVTLDLY HSNGYRARVR  
 AVDGSRHSNW TVTNTRFSVD EVTLTVGGSVN LEIHNGFILGKIQLPRPKMA PANDTYESIF SHFREYEIAI RKVPGNFTFT  
 HKKVKHENFS CVQVKPSVAS RSNKGMWSKEECISLTRQYF TVTN<HHHHHH>

### General References

Josephson K, et al. (2001) Acta Crystallogr D Biol Crystallogr. 57(Pt 12):1908-11.  
 Usacheva A, et al. (2002) J Immunol. 169(3):1302-8.

## DATA

### SDS-PAGE



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

### Biological Activity

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Human IL-10 R alpha inhibits Human IL-10 induced cell proliferation in the MC/9 mouse mast cells. The ED50 range is  $\leq 300$  ng/ml.

