

## Recombinant Human IL13RA1 Protein (Met1-Thr343), His-tagged, Biotinylated

Cat. No. IL13RA1-457H    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Human IL13RA1 Protein (NP\_001551.1) (Met1-Thr343) was produced by HEK293 Cells expression system. This protein was expressed with a C-terminal polyhistidine tag. The purified protein was biotinylated in vitro.

#### Species

Human

#### Source

HEK293

#### ProteinLength

Met1-Thr343

#### Description

Interleukin 13 receptor, alpha 1, also known as IL13RA1/IL-13RA1 and CD213A1 (cluster of differentiation 213A1), 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. IL13RA1/IL-13RA1 serves as a primary IL13-binding subunit of the IL13 receptor, and may also be a component of IL4 receptors. This protein has been shown to bind tyrosine kinase TYK2, and thus may mediate the signaling processes that lead to the activation of JAK1, STAT3 and STAT6 induced by IL13 and IL4. IL13RA1/IL-13RA1 binds with low affinity to interleukin-13 (IL13). This subunit together with IL4RA can form a functional receptor for IL13. IL13RA1/IL-13RA1 also serves as an alternate accessory protein to the common cytokine receptor gamma chain for interleukin-4 (IL4) signaling, but cannot replace the function of IL2RG in allowing enhanced interleukin-2 (IL2) binding activity.

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|                             |                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Predicted N Terminal</b> | Gly 22                                                                                                                                                                                                                                                       |
| <b>Form</b>                 | Lyophilized from sterile Sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                               |
| <b>Molecular Mass</b>       | The recombinant IL13RA1 consists of 333 amino acids and predicts a molecular mass of 38.3 kDa.                                                                                                                                                               |
| <b>Endotoxin</b>            | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                     |
| <b>Purity</b>               | > 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                            |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70 centigrade.                                                                                                                                                                           |
| <b>Storage</b>              | Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                               |
| <b>Reconstitution</b>       | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                |
| <b>Shipping</b>             | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |
| <b>Conjugation</b>          | Biotin                                                                                                                                                                                                                                                       |

## GENE INFORMATION

**Gene Name** IL13RA1 interleukin 13 receptor, alpha 1 [ Homo sapiens ]

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|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| Official Symbol | IL13RA1                                                                                            |
| Synonyms        | IL13RA1; CD213a1; CD213a1 antigen; IL 13Ra; NR4; CT19; IL-13RA1; IL-13R-alpha-1; CD213A1; IL-13Ra; |
| Gene ID         | 3597                                                                                               |
| mRNA Refseq     | NM_001560                                                                                          |
| Protein Refseq  | NP_001551                                                                                          |
| MIM             | 300119                                                                                             |
| UniProt ID      | P78552                                                                                             |

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