# Recombinant Human IL13RA1 Protein (His & Fc Tag)

**Catalog No.** PKSH031344

***Note:*** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

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| **Synonyms** | Interleukin-13 receptor subunit alpha-1;IL-13 receptor subunit alpha-1;IL-13R subunit alpha-1;IL-13R-alpha-1;IL-13RA1;Cancer/testis antigen 19;CT19;CD213a1;IL13RA1;IL13R;IL13RA;IL-13Ra;NR4 |
| **Species** | Human |
| **Expression Host** | HEK293 Cells |
| **Sequence** | Met 1-Thr 343 |
| **Accession** | NP_001551.1 |
| **Calculated Molecular Weight** | 65.0 kDa |
| **Observed molecular weight** | 85-95 kDa |
| **Tag** | C-His-Fc |
| **Bioactivity** | Immobilized cynomolgus IL-13 at 4 μg/ml (100 μl/well) can bind human IL13RA1-Fc with a linear ranger of 0.156-2. 5 μg/ml. |

## Properties

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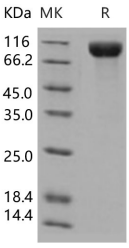
| **Purity** | > 97 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 97 % as determined by reducing SDS-PAGE.

## Background

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.


Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017
Web: www.elabscience.com Email: techsupport@elabscience.com