

Recombinant Human IL-13RA1/CD213a1 Protein

Catalog No.: RP01025 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3597 P78552

Tags

C-hFc&His

Synonyms

CD213A1; CT19; IL-13Ra; NR4;IL13RA1;CT19;IL-13Ra;NR4

Product Information

Source Purification HEK293 cells ≥ 95 % as

≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

65.84 kDa 100-120 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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. IL13RA1 cDNA encodes a 427 amino acid (aa) residue precursor protein with a putative 21 aa residue signal peptide, a 324 aa residue extracellular domain, a 23 aa residue transmembrane region and a 59 aa residue cytoplasmic tail. This subunit together with IL4RA can form a functional receptor for IL13. The lower affinity IL-13 binding protein, previously designated IL-13 R alpha, IL-13 R alpha ' or NR4, is now referred to as IL-13 R alpha 1. The high-affinity IL-13 binding protein, previously also designated IL-13 R or IL-13 R alpha ', is now referred to as IL-13 R alpha 2. IL13RA1 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.

Basic Information

Description

Recombinant Human IL-13RA1/CD213a1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met 1-Thr 343) of human IL13RA1 (Accession #NP_001551.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

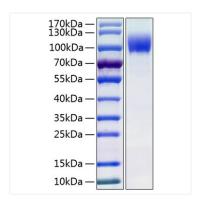
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human IL-13RA1/CD213a1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.