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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Predicted N Terminal	Gly 22
Form	Lyophilized from sterile Sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant IL13RA1 consists of 333 amino acids and predicts a molecular mass of 38.3 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	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.
Reconstitution	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℃ before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	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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