

Recombinant Human IL13RA1 Protein (His & Fc Tag)

Catalog Number:PKSH031344



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

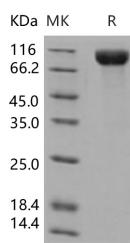
Description

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

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°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. 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

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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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