Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

# Human IL-13RA1 Protein; His Tag

#### **Product Information**

Product Name Human IL-13RA1 Protein; His Tag

Storage temp Store at  $\leq$  -70°C, stable for 6 months after receipt.

Recommend to aliquot the protein into smaller quantities for

optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-88041RP-100 / 100 μg

GM-88041RP-1000 / 1 mg

#### **Protein Information**

Alternative Names IL13RA1, CD213A1, IL-13Ra, NR4, RP13-128O4.2, IL13Rα1

Source Human IL-13RA1 Protein; His Tag (GM-88041RP) is expressed from human 293

cells (HEK-293). It contains AA Gly 22 - Thr 343 (Accession # P78552-1).

This protein carries a His tag at the C-terminus.

Purity > 95% as determined by SDS-PAGE

Endotoxin < 1 EU/μg, determined by LAL gel clotting assay

Predicted Mol Mass 37.7 KDa

**Formulation** Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

**Description** IL13RA1 is a component of the type II IL-4 receptor. It is a single-pass

transmembrane protein encoded by the IL13RA1 gene and expressed on various cells, including macrophages, dendritic cells, some lymphocytes, and some non-hematopoietic cells. It partners with IL4R $\alpha$  to form the IL-13 receptor, modulating allergic inflammation, Th2 responses, and tissue remodeling. Dysregulation of IL-13 signaling via IL13RA1 links to atopy and fibrosis.

IL-13 binding to the IL13RA1/IL4R $\alpha$  complex activates JAK-STAT signaling, mainly inducing STAT6 phosphorylation and transcription of IL-4/IL-13-responsive genes. It also engages PI3K-AKT and MAPK pathways, affecting epithelial barrier, mucus production, and chemokine/cytokine expression. Crosstalk with IL-4 can amplify responses. Aberrant IL-13/IL13RA1 signaling is associated with allergic diseases, fibrosis, and inflammation, making this axis a

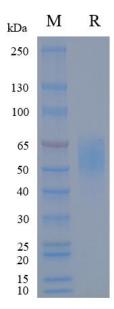
therapeutic target.

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### **SDS-PAGE**

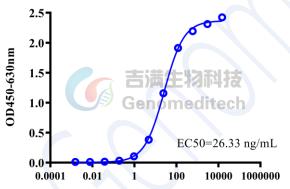


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## **Bioactivity-ELISA**

### **Bioactivity-ELISA**

0.2 μg Human IL-13RA1 Protein; His Tag of per well



Anti-IL-13RA1 hIgG1 Antibody (eblasakimab).(ng/mL)

Human IL-13RA1 Protein; His Tag (Catalog # GM-88041RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-IL-13RA1 hIgG1 Antibody (eblasakimab) (Catalog # GM-88181AB) were added.