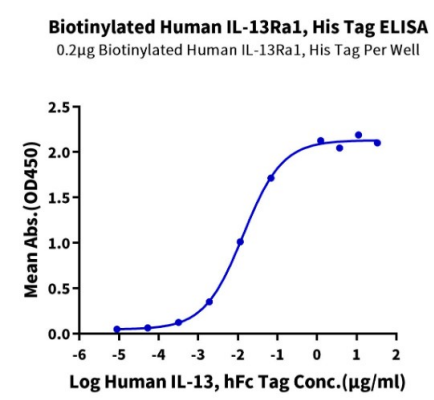
Bioactive | CellTx™ | HuPro®

IL13RA1 (Human) Recombinant Protein (Biotin)

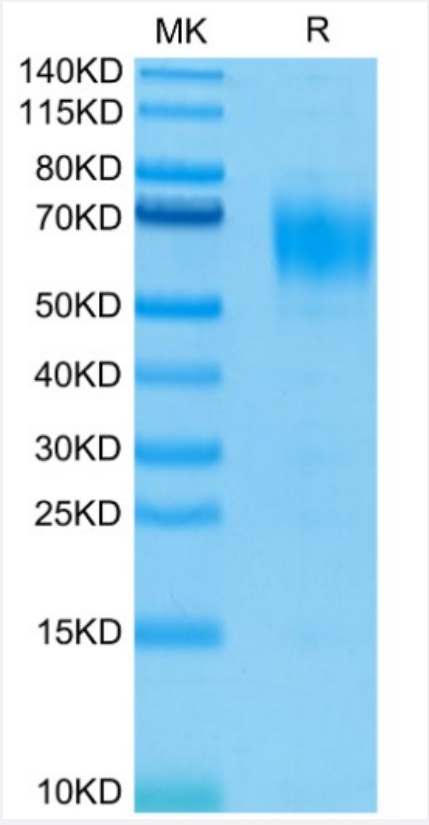
Catalog # P10440 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

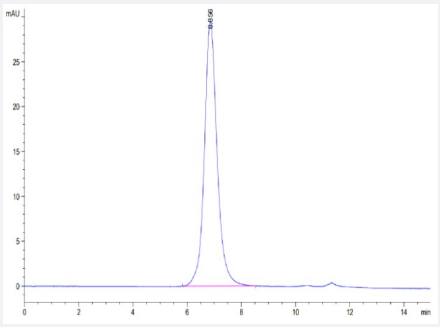
Immobilized Biotinylated Human IL-13Ra1, His Tag at 2 ug/mL (100 uL/well) on the streptavidin precoated plate (5 ug/mL). Dose response curve for Human IL-13, hFc Tag with the EC_{50} of 13.8 ng/mL determined by ELISA.



Tris-Bis PAGE

Biotinylated Human IL13RA1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

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SEC-HPLC

The purity of-Biotinylated IL13RA1 is greater than 95% as determined by SEC-HPLC.

Specification

Product Description	Human IL13RA1 (P78552-1, Ala27-Thr343) partial recombinant protein with His-Avi tag at the C-Ter minus expressed in HEK293 cells.
Sequence	Ala27-Thr343
Host	Human
Theoretical MW (kDa)	39.5
Reactivity	Human
Form	Lyophilized
Conjugation	Biotin
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% by Tris-Bis PAGE > 95% by HPLC
Endotoxin Level	< 0.1 EU per 1 ug as determined by the LAL method.
Activity	The EC_{50} was 13.8 ng/mL, measured by ELISA at 2 ug/mL.
Recommend Usage	Biological Activity ELISA Tris-Bis PAGE SEC-HPLC The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.22 um filtered solution in PBS, pH 7.4. (8% trehalose).
Storage Instruction	Store at -20°C for 12 months. After reconstitution, store at 4°C for 2-7 days, or store at -80°C for 3-6 months. Aliquot to avoid repeated freezing and thawing.
Note	Please use within one month after protein reconstitution.

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Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Biotinylated Human IL-13Ra1, His Tag at 2 ug/mL (100 uL/well) on the streptavidin precoated plate (5 ug/mL). Dose response curve for Human IL-13, hFc Tag with the EC_{50} of 13.8 ng/mL determined by ELISA.

Gene Info — IL13RA1

Entrez GeneID	3597
Protein Accession#	P78552-1
Gene Name	IL13RA1
Gene Alias	CD213A1, IL-13Ra, NR4
Gene Description	interleukin 13 receptor, alpha 1
Omim ID	300119
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a subunit of the interleukin 13 receptor. This subunit forms a r eceptor complex with IL4 receptor alpha, a subunit shared by IL13 and IL4 receptors. This subunit serves as a primary IL13-binding subunit of the IL13 receptor, and may also be a component of IL 4 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 I L4. [provided by RefSeq
Other Designations	CD213a1 antigen|IL13 receptor alpha-1 chain|OTTHUMP00000023890|bB128O4.2.1 (interleukin 13 receptor, alpha 1)

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

Disease

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- Asthma
- Bronchiolitis
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hypersensitivity
- Infant
- Pulmonary Disease
- Respiratory Hypersensitivity
- Respiratory Syncytial Virus Infections

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