IL-13R alpha 1 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78163
Synonyms:	IL-13 R alpha 1; IL13R; IL13RA; CT19; IL13RA1; NR4; CD213A1; AI882074
Species:	Human
Source:	HEK293
Accession:	P78552 (A27-T343)
Gene ID:	3597
Molecular Weight:	55-75 kDa

PROPERTIES

Biological Activity	Immobilized Human IL-13, hFc Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human IL-13Ra1, His Tag with the EC_{50} of 0.83μg/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The IL13RA1 protein plays a vital role in immune signaling, exhibiting low-affinity binding to interleukin-13 (IL13). When partnered with IL4RA, it forms a functional receptor for IL13, facilitating the cellular response to this cytokine. Additionally, IL13RA1 serves as an alternate accessory protein alongside IL4RA for interleukin-4 (IL4) signaling, although it cannot replace the function of IL2RG in enhancing interleukin-2 (IL2) binding activity. The interleukin-13 receptor is a complex assembly comprising IL4R, IL13RA1, and possibly other components, indicating the intricate architecture of this signaling system. Moreover, IL13RA1 interacts with TRAF3IP1, suggesting its involvement in diverse cellular processes. Furthermore, IL13RA1 engages in interactions with IL4, underlining its multifaceted role in mediating responses to interleukin signaling pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA