

IL13RA1 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702335
Synonyms:	Interleukin-13 receptor subunit alpha-1; Cancer/testis antigen 19; CT19
Species:	Human
Source:	E. coli Cell-free
Accession:	P78552 (G22-Q427)
Gene ID:	3597
Molecular Weight:	52.6 kDa

PROPERTIES

AA Sequence	<pre> GGGGAAPTET QPPVTNLSVS VENLCTVIWT WNPPEGASSN CSLWYFSHFG DKQDKKIAPE TRRSIEVPLN ERICLQVGSQ CSTNESEKPS ILVEKCISPP EGDPE SAVTE LQCIWHNLSY MKCSWLPGRN TSPDTNYTLY YWHRSL EKIH QCENIFREGQ YFGCSFDLTK VKDSSF EQHS VQIMVKDNAG KIKPSFNIVP LTSRVKPDPP HIKNLSFHND DLYVQWENPQ NFISRCLFYE VEVNNSQTET HNVFYVQEAK CENPEFERNV ENTSCFMVPG VLPDTLNTVR IRVKTNKLCY EDDKLWSNWS QEMSIGKKRN STLYITMLLI VPVIVAGAIL VLLLYLKRLK IIFPPI PDP GKIFKEMFGD QNDDTLHWKK YDIYEKQTK E ETDSVVLIEN LKKASQ </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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.

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