Human IL-13 R alpha 1 Protein, His Tag, low endotoxin (MALS verified)

Catalog # IL1-H52H3

Synonyms

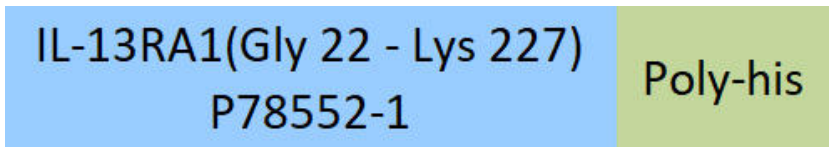
IL13RA1, CD213A1, IL-13Ra, NR4, RP13-128O4.2, IL13Rα1

Source

Human IL-13 R alpha 1 Protein, His Tag (IL1-H52H3) is expressed from *E. coli* cells. It contains AA Gly 22 - Lys 227 (Accession # P78552-1).

Predicted N-terminus: Met

Molecular Characterization



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

The protein has a calculated MW of 25.2 kDa. The protein migrates as 29-30 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 0.01 EU per μg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

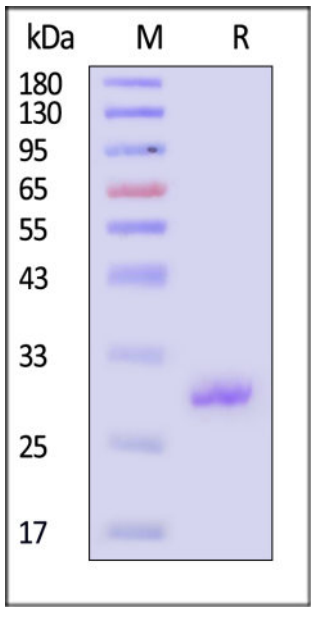
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

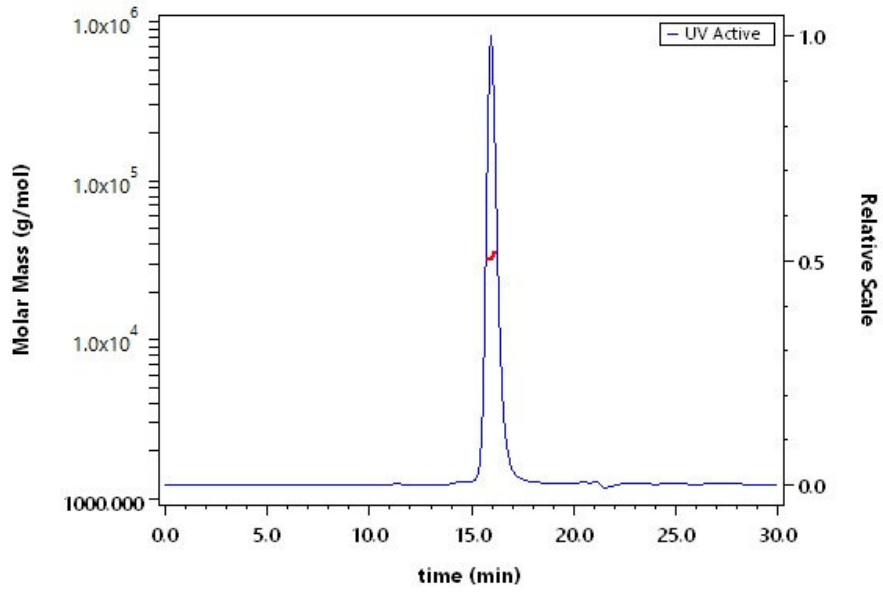
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



Human IL-13 R alpha 1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Human IL-13 R alpha 1 Protein, His Tag (Cat. No. IL1-H52H3) is more than 95% and the molecular weight of this protein is around 25-40 kDa verified by SEC-MALS.

Background

Interleukin-13 receptor subunit alpha-1 is also known as IL13RA1, NR4, and CD213A1 (cluster of differentiation 213A1). IL13RA1 is a subunit of the interleukin-13 receptor. This subunit forms a heterodimeric receptor complex with IL4Rα (interleukin-4 receptor alpha), a subunit shared by both IL-13 and IL-4 receptor complexes. IL13RA1 serves as the primary IL-13-binding subunit and may also function as a component of IL-4 receptors. Furthermore, this protein has been shown to bind the tyrosine kinase TYK2, thereby mediating downstream signaling processes that lead to the activation of JAK1, STAT3, and STAT6 induced by IL-13 and IL-4.