

Biotinylated Recombinant Human IL-13 Protein

Catalog No.: RP02394B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3596	AAK53823(P35225)

Tags

N-His&Avi

Synonyms

IL13;IL-13;P600

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Interleukin-13 (IL-13) is a monomeric 17 kDa immunoregulatory cytokine that plays a key role in the pathogenesis of allergy, cancer, and tissue fibrosis. It is secreted by several helper T cell subsets, NK cells, mast cells, eosinophils, basophils, and visceral smooth muscle cells. Inhibits inflammatory cytokine production. Synergizes with IL2 in regulating interferon-gamma synthesis. May be critical in regulating inflammatory and immune responses.

Basic Information

Description

Biotinylated Recombinant Human IL-13 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gly21-Asn132) of Human IL-13 fused with a His tag and Avi at the N-terminal.

Bio-Activity

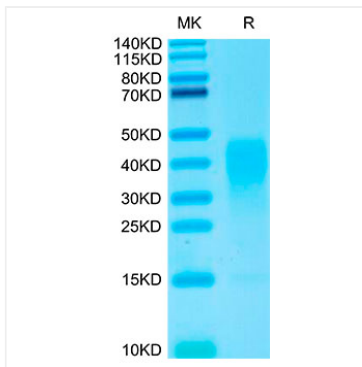
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

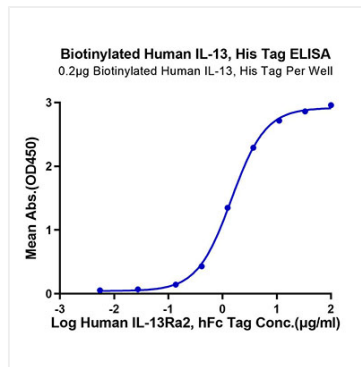
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Biotinylated IL-13 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.



Immobilized Biotinylated Human IL-13, His Tag at 2µg/ml (100µl/well) on the streptavidin (5µg/ml) precoated plate. Dose response curve for Human IL-13Ra2, hFc Tag with the EC₅₀ of 1.4µg/ml determined by ELISA.