

Recombinant Cynomolgus IL-13 Protein

Catalog No.: RP03580

Sequence Information

Species Gene ID

Cynomolgus

Swiss Prot Tags

Q0PW92 N-His

Synonyms

Interleukin-13, IL-13, T-cell activation protein P600, IL13, IL-13, IL13

Product Information

Source Purification

HEK293 cells > 95% as determined by Bis-Tris PAGE, > 95% as determined by HPLC.

Calculated MW Observed MW

13.59 kDa 30-45 kDa

Endotoxin

< 1 EU per µg of the protein as determined by the LAL method.

Formulation

Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial 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.

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. Positively regulates IL31RA expression in macrophages.

Basic Information

Description

Recombinant Cynomolgus IL-13 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser19-Asn132) of Cynomolgus IL-13 (Accession #Q0PW92) fused with His tag at the N-Terminus.

Activity

1. Immobilized Cynomolgus IL-13, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IL-13Ra2, hFc Tag with the EC50 of 72.8ng/ml determined by ELISA. 2. Cynomolgus IL-13Ra1, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-13, His Tag with an affinity constant of 21.16 nM as determined in SPR assay. 3. Loaded Cynomolgus IL-13, His Tag on Anti-His-Biosensor can bind Human IL-13Ra2, hFc Tag with an affinity constant of 0.14 µM as determined in BLI assay.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

☎ | 400-999-6126

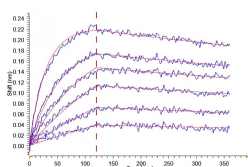
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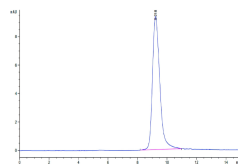
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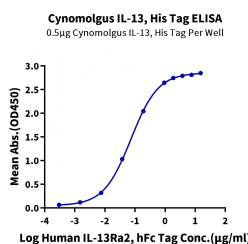
Recombinant Cynomolgus IL-13 Protein was determined on Bis-Tris PAGE under reduced condition.



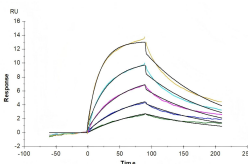
Loaded Cynomolgus IL-13, His Tag on Anti-His-Biosensor can bind Human IL-13Ra2, hFc Tag with an affinity constant of 0.14 μ M as determined in BLI assay .



The purity of Cynomolgus IL-13 is greater than 95% as determined by SEC-HPLC.



Immobilized Cynomolgus IL-13, His Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human IL-13Ra2, hFc Tag with the EC50 of 72.8ng/ml determined by ELISA .



Cynomolgus IL-13Ra1, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-13, His Tag with an affinity constant of 21.16 nM as determined in SPR assay.