

Recombinant Cynomolgus IL-13 Protein

Catalog No.: RP03580 **Recombinant**

Sequence Information

Species Cynomolgus
Gene ID IL13
Swiss Prot Q0PW92

Tags

N-His

Synonyms

Interleukin-13; IL-13; T-cell activation protein P600□IL13; IL-13□IL13

Product Information

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

Calculated MW 13.59 kDa
Observed MW 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.

Contact

☎ | 400-999-6126

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.

Bio-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

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

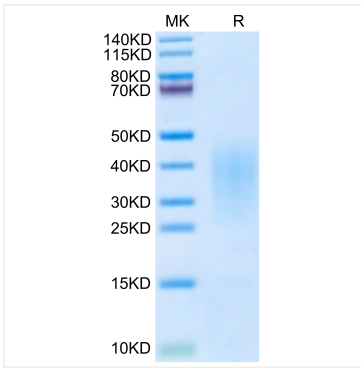
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

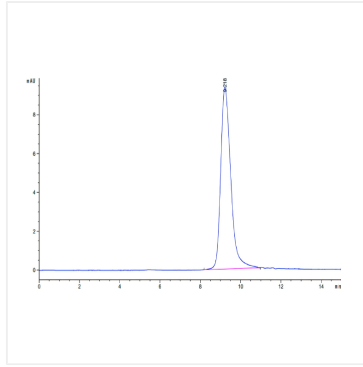
Operational Notes

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

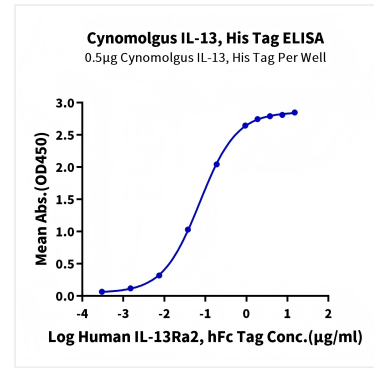
Validation Data



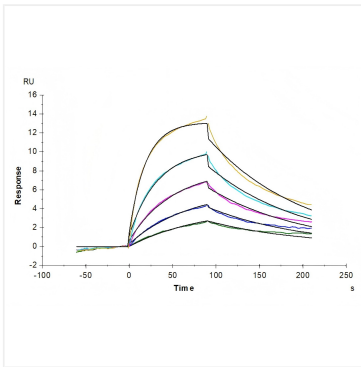
Recombinant Cynomolgus IL-13 Protein was determined on Bis-Tris PAGE under reduced condition.



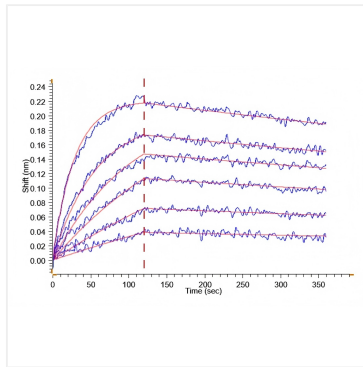
The purity of Cynomolgus IL-13 is greater than 95% as determined by SEC-HPLC.



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 .



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.



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 .