Recombinant Human IL-13 Protein

Catalog No.: RP01320

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Sequence Information

Species
Human

Gene ID
3596

Swiss Prot
P35225

Tags
C-His

Synonyms
IL13,IL-13,P600

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
13.18 kDa

Observed MW
15 kDa, 25-35 kDa

Endotoxin
< 0.1 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 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 stablizer (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 (IL13) is also known as ALRH,and P600, is a single-chain glycosylated polypeptide, and is a cytokine critical in regulating inflammatory and immune responses. IL13 is secreted by many cell types, but especially by T helper type 2 (Th2) cells. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor (IL-4Rα) and at least one of two known IL-13-specific binding chains.As a cytokine, IL-13 protein is critical in regulating inflammatory, immune responses, and diseases. Also, it inhibits the production of pro-inflammatory cytokines and chemokines, and thus down-regulates macrophage activity. IL-13 protein and antibody are more importantly implicated as a central mediator of immunoregulatory processes in various cell types.

Basic Information

Description
Recombinant Human IL-13 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly35-Asn146) of Human IL13 (Accession #NP_002179.2) fused with an 6×His tag at the C-terminus.

Activity
Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED_{50} for this effect is 1-4 ng/mL, corresponding to a specific activity of 0.25×10^6~1.0×10^6 units/mg.

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℃

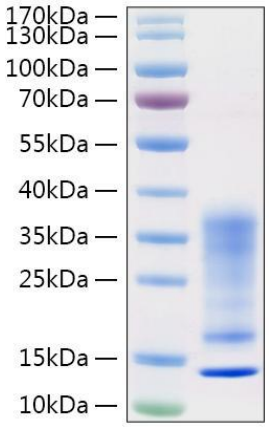
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

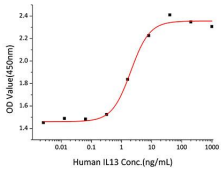
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Validation Data



Recombinant Human IL-13 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL-13 stimulates cell proliferation of the TF-1 Human erythroleukemic cells. The ED_{50} for this effect is 1-4 ng/mL, corresponding to a specific activity of 0.25×10^6~1.0×10^6 units/mg.

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