

Recombinant Human IL-13 Protein

Catalog No.: RP01320 Recombinant 3 Publications

Sequence Information

Species **Gene ID** **Swiss Prot**
 Human 3596 P35225

Tags

C-His

Synonyms

IL13;IL-13;P600

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-4R α) 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.

Product Information

Source **Purification**
 HEK293 cells $\geq 95\%$ as determined by SDS-PAGE.

Calculated MW **Observed MW**
 13.18 kDa 15 kDa, 25-35 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze/thaw cycles.

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 \times His tag at the C-terminus.

Bio-Activity

Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 1-4 ng/mL, corresponding to a specific activity of 0.25 \times 10⁶~1.0 \times 10⁶ units/mg.

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.

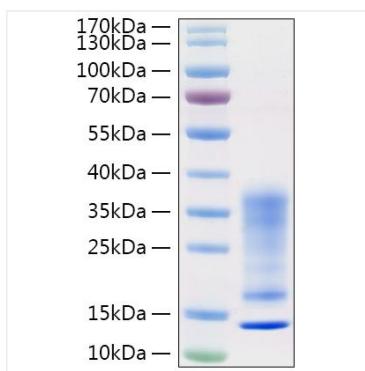
Operational Notes

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

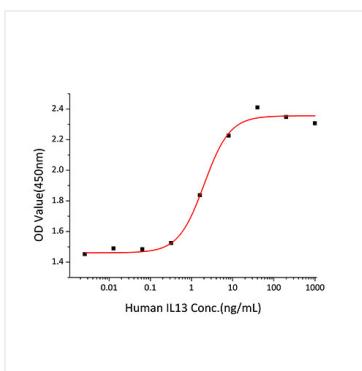
Contact

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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 ED₅₀ for this effect is 1-4 ng/mL, corresponding to a specific activity of $0.25 \times 10^6 \sim 1.0 \times 10^6$ units/mg.