

Recombinant Mouse IL-13 Protein

Catalog No.: RP01596S

Sequence Information

Species **Gene ID**
Mouse 16163

Swiss Prot **Tags**
P20109 NO-Tag

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 90% as determined by reducing SDS-PAGE.

Calculated MW **Observed MW**
13.79 KD 15-35 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 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 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

Mouse interleukin 13 (mIL-13) is a pleiotropic cytokine produced by activated Th2 cells. IL-13 induces B cell proliferation and immunoglobulin production. It contains a four helical bundle with two internal disulfide bonds. Mouse IL13 shares 58% sequence identity with human protein and exhibits cross-species activity. IL13 signals via receptor IL13R (type2, IL4R) and activates STAT-6. IL13 initially binds IL-13Rα1 with low affinity and triggers association of IL4R α, generating a high affinity heterodimeric receptor IL13R and eliciting downstream signals. IL13 also binds IL-13Rα2 with high affinity, which plays a role in a negative feedback system of IL13 signaling. IL13 is an important mediator of allergic inflammation and disease.

Basic Information

Description

Recombinant Mouse IL-13 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly21-Phe131) of Mouse IL-13 (Accession #P20109) fused with a His at the N-terminus.

Activity

Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 5.2-20.8 ng/mL, corresponding to a specific activity of 4.81×10⁴~1.44×10⁵ 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°C

Operational Notes

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

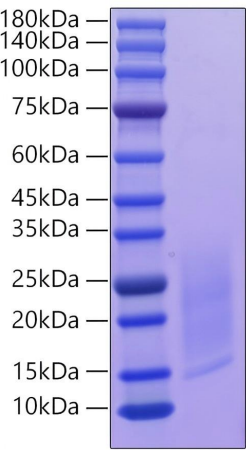
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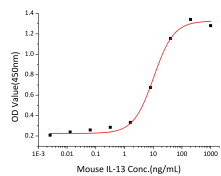
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Validation Data



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



Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 5.2-20.8 ng/mL, corresponding to a specific activity of 4.81×10^4 ~ 1.44×10^5 units/mg.