Recombinant Mouse IL-13 Protein

Catalog No.: RP01596

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Sequence Information

Species
Mouse

Gene ID
16163

Swiss Prot
P20109

Tags
C-His

Synonyms
Interleukin-13, IL-13, T-Cell Activation Protein P600, Il13, Il-13, IL13,Interleukin-13, IL-13, T-Cell Activation Protein P600, Il13, Il-13, IL13

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
12.52 kDa

Observed MW
15-35 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

Mouse interleukin 13 (mIL-13) is a pleiotropic cytokine produced by activated Th2 cells. IL-13 induces B cell proliferation and immunoglobin 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 (Ser26-Phe131) of mouse IL-13 (Accession #NP_032381.1) fused with and a 6×His tag at the C-terminus.

Activity
Measured in a cell proliferation assay using TF-1 Mouse erythroleukemic cells. The ED_{50} for this effect is 5.4-21.4 ng/mL, corresponding to a specific activity of 4.68×10^{4}~1.85×10^{5} 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℃

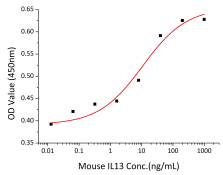
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

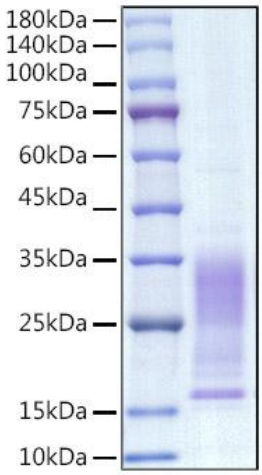
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Validation Data



Recombinant Mouse IL-13 stimulates cell proliferation of the TF-1 Mouse erythroleukemic cells. The ED_{50} for this effect is 5.4-21.4 ng/mL, corresponding to a specific activity of 4.68×10^4~1.85×10^5 units/mg.



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