Recombinant Mouse IL-13 Protein

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Catalog No.: RP01596 Recombinant

Sequence Information

Species Gene ID Swiss ProtMouse 16163 P20109

Tags

C-His

Synonyms

Interleukin-13; IL-13; T-Cell Activation Protein P600; Il13;

II-13;IL13;Interleukin-13; IL-13; T-Cell Activation Protein P600; II13; II-13;IL13

Product Information

Source

Purification

HEK293 cells

> 95% by SDS-PAGE.

Endotoxin

<0.1EU/µg

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.

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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-13R α 1 with low affinity and triggers association of IL4R α , generating a high affinity heterodimeric receptor IL13R and eliciting downstream signals. IL13 also binds IL-13R α 2 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 $6\times His$ tag at the C-terminus.

Bio-Activity

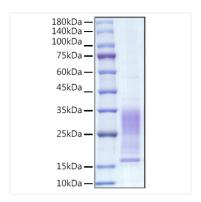
Measured in a cell proliferation assay using TF-1 Mouse erythroleukemic cells. The ED_{so} for this effect is 23.9-95.6 ng/mL, corresponding to a specific activity of $1.05 \times 10^4 - 4.18 \times 10^4$ units/mg.

Storage

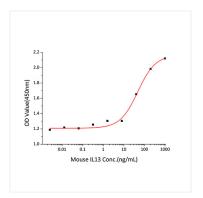
Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse IL-13 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-30 kDa.



Recombinant Mouse IL-13 stimulates cell proliferation of the TF-1 Mouse erythroleukemic cells. The ED $_{50}$ for this effect is 23.9-95.6 ng/mL, corresponding to a specific activity of 1.05×10^4 - 4.18×10^4 units/mg.