

RP01123

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Recombinant Mouse IL-13 Protein

Catalog No.: RP01123

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	16163	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	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

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 Mammalian expression system. The target protein is expressed with sequence (Ser26-Phe131) of mouse IL-13 (Accession #P20109) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to induce Mouse Bone marrow derived macrophage (BMDM) differentiation into M2-type. 20ng/mL of Recombinant Mouse IL-4 (RP01161) and Mouse IL-13 can effectively upregulate the expression of M2-type biomarker Arg-1.

Storage

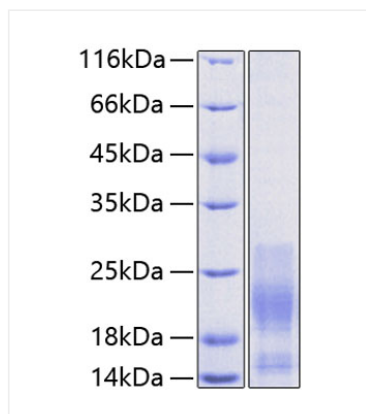
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

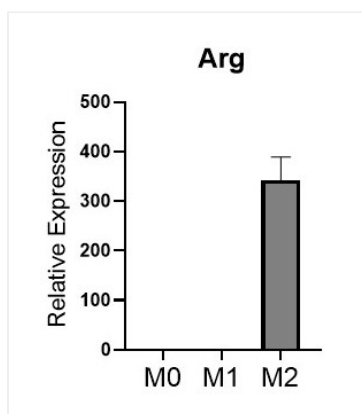


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Validation Data



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



Active Recombinant Mouse IL-13 induces Mouse Bone marrow derived macrophage (BMDM) differentiation into M2-type. 20ng/mL of Recombinant Mouse IL-4 (RP01161) and Mouse IL-13 can effectively upregulate the expression of M2-type biomarker Arg-1.