Recombinant Mouse IL-13 Protein

Catalog No	RP01123	**Category**	Recombinant Protein
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.		

Sequence Information

Species	Mouse	**Gene ID**	16163
Tags	6×His tag at the C-terminus	**Swiss Prot**	P20109
Synonyms	Interleukin-13; IL-13; T-Cell Activation Protein P600; Il13; Il-13		

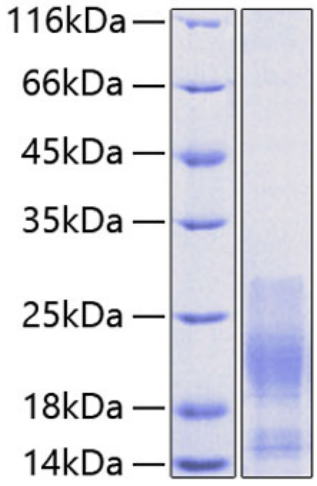
Product information

Source	Mammalian
Purity	> 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.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
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.**

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.

Validated Data



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

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