

Catalog No.: RP01598 **Recombinant**

Species	Gene ID	Swiss Prot
Mouse	16163	P20109

N-His

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

Source	Purification
<i>Pichia</i>	≥ 85 % as determined by SDS-PAGE

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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.

 | 400-999-6126

 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

Mouse interleukin 13 (IL-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-13Ra1 with low affinity and triggers association of IL4R α , generating a high affinity heterodimeric receptor IL13R and eliciting downstream signals. IL13 also binds IL-13Ra2 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.

Recombinant Mouse IL-13 Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Ser26-Phe131) of mouse IL-13 (Accession #NP_032381.1) fused with and a 6xHis tag at the N-terminus.

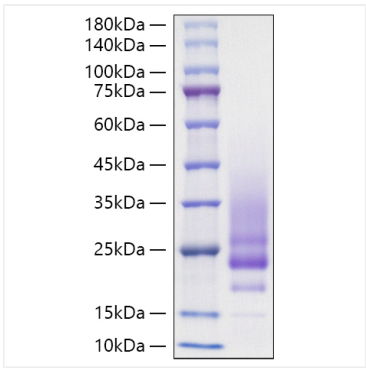
Measured in a cell proliferation assay using TF-1 Mouse erythroleukemic cells. The ED₅₀ for this effect is 3.9-15.6 ng/mL, corresponding to a specific activity of 6.41×10⁴-2.56×10⁵ units/mg.

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.

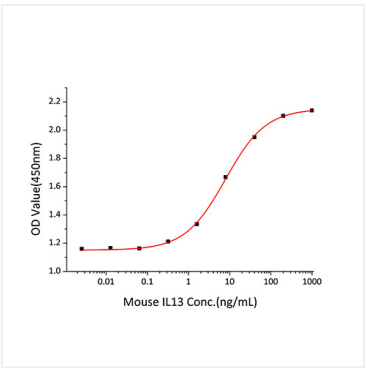
Store at -20°C
Avoid repeated freeze/thaw cycles.

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

Validation Data



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



Recombinant Mouse IL-13 stimulates cell proliferation of the TF-1 Mouse erythroleukemic cells. The ED₅₀ for this effect is 3.9-15.6 ng/mL, corresponding to a specific activity of 6.41×10⁴-2.56×10⁵ units/mg.