重组小鼠白介素13(IL-13) (106aa)

IL-13,Recombinant Mouse Interleukin-13(106AA)

Cat. No.: MA1385-1 Size: 10μg

Source: E.coli

Description: Recombinant Mouse Interleukin-13 is produced by our E.coli expression system and the target gene encoding Ser26-Phe131 is expressed.

Accession: P20109

Known As: Interleukin-13; IL-13; T-Cell Activation Protein P600; Il13; Il-13

Predicted Mol Mass: 11.7 KDa

Apparent Mol Mass: 9-14 KDa, reducing conditions

Endotoxin: < 1 EU/μg as determined by LAL test.

Formulation: Lyophilized from a 0.2 μm filtered solution of 20mM Histidine-HCl, 8% Trehalose, 4% Mannitol, 50mM NaCl, 0.05% Tween 80, pH 6.0.

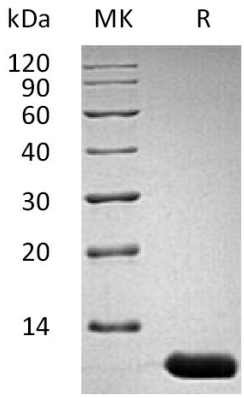
Reconstitution:
Always centrifuge tubes before opening.Do not mix by vortex or pipetting.
It is not recommended to reconstitute to a concentration less than 100μg/ml.
Dissolve the lyophilized protein in distilled water.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping:
The product is shipped at ambient temperature.
Upon receipt, store it immediately at the temperature listed below.

Storage:
Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt.
Reconstituted protein solution can be stored at 2-8°C for 2-7 days.
Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.

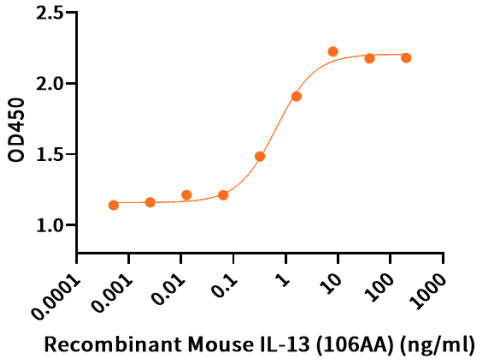
Background: Mouse interleukin 13 (mIL-13) is a pleiotropic cytokine produced by activated Th2 cells. IL-13 induces B cell proliferation and immunoglobin production. It contains a four helical bundle with two internal disulfide bonds. Mouse IL13 shares 58% sequence identity with human protein and exhibits 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 IL4Rα, 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.

Purity-SDS-PAGE:



Greater than 95% as determined by reducing SDS-PAGE.

Bioactivity-Cell Based Assay:



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 1.93 ng/ml.

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