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Recombinant Mouse IL-13

Catalog#:P02308 Derived from Human Cells

DESCRIPTION	Recombinant Mouse Interleukin-13 is produced by our Mammalian expression system and the target gene encoding Pro22-Phe131 is expressed with a 6His tag at the C-terminus. **Accession#**: P20109 **Known as**: Interleukin-13; IL-13; T-Cell Activation Protein P600; Il13; Il-13
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
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, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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.
QUALITY CONTROL	**Bioactivity**: Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 2-16 ng/ml **Mol Mass**:13.1kDa **AP Mol Mass**:14-30kDa, reducing conditions. **Purity**: Greater than 95% as determined by reducing SDS-PAGE. **Endotoxin**: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
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-13Rα 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-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.

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