# IL-13 (Pro22-Phe131, C-6His), Mouse, Recombinant

**Cat. No. : PCK252**

## General Information

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| **Synonyms** | Interleukin-13;IL-13;T-Cell Activation Protein P600;Il13;Il-13 |
| **Species** | Mouse |
| **Expression host** | Human Cells |
| **Sequence** | Pro22-Phe131 |
| **Accession** | P20109 |
| **Tag** | C-6His |
| **Mol mass** | 13.1 kDa |
| **Expiration date** | 12 months |
| **Bio activity** | Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 11.34 ng/mL. |

## Product feature

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| **Purity** | > 95% as determined by reducing SDS-PAGE. |
| **Endotoxin (EU/μg)** | < 0.1 |
| **Storage** | Lyophilized protein should be stored at -5~-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 -5~-20°C for 3 months. |
| **Shipping** | Ice bag |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| **Reconstitution** | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize 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 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.