

**IL-13 (Ser26-Phe131, C-6His), Mouse, Recombinant**

Cat. No. : PCK253

**General Information**

<b>Synonyms</b>	Interleukin-13;IL-13;T-Cell Activation Protein P600;IL13;IL-13
<b>Species</b>	Mouse
<b>Expression host</b>	Human Cells
<b>Sequence</b>	Ser26-Phe131
<b>Accession</b>	P20109
<b>Tag</b>	C-6His
<b>Mol mass</b>	12.7 kDa
<b>Expiration date</b>	12 months
<b>Bio activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 2-13 ng/mL.

**Product feature**

<b>Purity</b>	> 95% as determined by reducing SDS-PAGE.
<b>Endotoxin (EU/μg)</b>	< 0.1
<b>Storage</b>	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.
<b>Shipping</b>	Ice bag
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
<b>Reconstitution</b>	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 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-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.