A Reliable Research Partner in Life Science and Medicine

# Recombinant Mouse Interleukin-13/IL-13 Protein

Catalog No. PKSM041073

*Note:* Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms Interleukin-13;IL-13;T-Cell Activation Protein P600;Il13;Il-13

SpeciesMouseExpression HostE.coli

Sequence Ser26-Phe131

AccessionP20109Calculated Molecular Weight11.7 kDaObserved molecular weight9-14 kDaTagNone

**Bioactivity** Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The

ED50 for this effect is 1. 93 ng/ml.

### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per μg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

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.

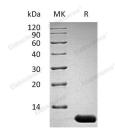
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

# Background

#### For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: <u>www.elabscience.com</u> Email: <u>techsupport@elabscience.com</u>

#### **Elabscience Bionovation Inc.**



A Reliable Research Partner in Life Science and Medicine

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.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com