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Recombinant Mouse Interleukin-13/IL-13 Protein (His Tag)

Catalog Number: PKSM041074

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

Description

Species Mouse

Source HEK293 Cells-derived Mouse Interleukin-13/IL-13 protein Ser26-Phe131, with an C-

terminal His

Calculated MW 12.7 kDa
Observed MW 15-30 kDa
Accession P20109

Bio-activity Measured in a cell proliferation assay using TF- 1 human erythroleukemic cells. The

 ED_{50} for this effect is 2-13 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 PBS, pH 7.4.

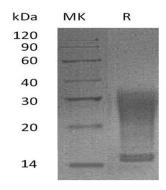
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

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

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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 5 8% 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-13R α 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-13R α 2 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.