

Recombinant Mouse IL-31 Protein

Catalog No.: RP01835

Sequence Information

Species **Gene ID**
Mouse 76399

Swiss Prot **Tags**
Q6EAL8 C-His

Synonyms

1700013B14Rik;IL-31;il31;IL31;IL-31; interleukin 31

Product Information

Source **Purification**
HEK293 cells ≥ 90 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
16.46 kDa 15-35 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

IL-31 is an inflammatory cytokine that helps trigger cell-mediated immunity against pathogens. Activates STAT3 and possibly STAT1 and STAT5 through the IL31 heterodimeric receptor composed of IL31RA and OSMR. It has also been identified as a major player in a number of chronic inflammatory diseases, including atopic dermatitis. May function in skin immunity. IL-31 is produced by a variety of cells, namely type 2 helper (TH2) T-cells. IL-31 sends signals through a receptor complex made of IL-31RA and oncostatin M receptor β (OSMRβ) expressed in immune and epithelial cells. These signals activate three pathways: ERK1/2 MAP kinase, PI3K/AKT, and JAK1/2 signaling pathways.

Basic Information

Description

Recombinant Mouse IL-31 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr24-Cys163) of mouse IL-31 (Accession #NP_083870.1) fused with a 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

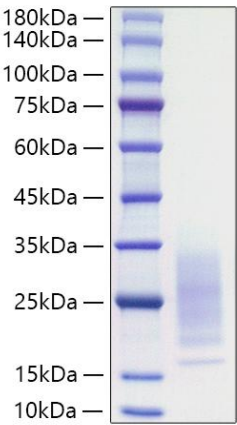
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Validation Data



Recombinant Mouse IL-31 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.