

Recombinant Mouse IL-31 Protein

Catalog No.: RP01835 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	76399	Q6EAL8

Tags

C-His

Synonyms

1700013B14Rik;IL-31;il31;IL31;IL-31[inte
rleukin 31

Product Information

Source	Purification
HEK293 cells	> 92% by SDS- PAGE.

Endotoxin

< 0.1 EU/μg

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.

Contact

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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.

Bio-Activity

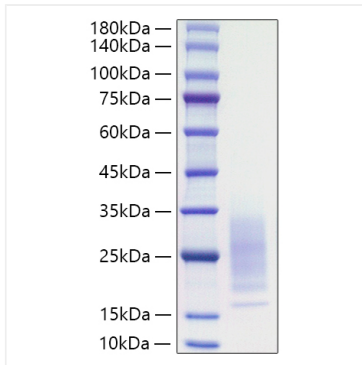
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse IL-31 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-35 kDa.