

Recombinant Human IL-31 Protein

Catalog No.: RP01757 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	386653	Q6EBC2

Tags

N-6His

Synonyms

IL-31;IL31

Product Information

Source	Purification
HEK293 cells	

Endotoxin

< 0.1EU/ μ g

Formulation

Lyophilized from a 0.22 μ m 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

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

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 (OSMR β) 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

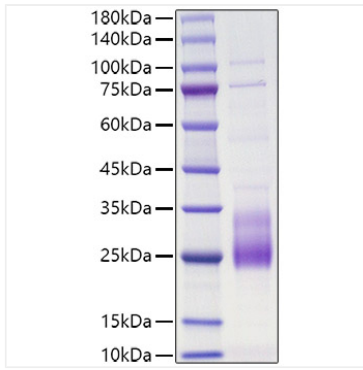
Recombinant Human IL-31 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser24-Thr164) of human IL-31 (Accession #NP_001014358.1) fused with a 6 \times His tag at the N-terminus.

Bio-Activity

Storage

Store at -20 $^{\circ}$ C. Store the lyophilized protein at -20 $^{\circ}$ C to -80 $^{\circ}$ C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human IL-31 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30 kDa.