

Recombinant Cynomolgus IL-31 Protein

Catalog No.: RP02727 **Recombinant**

Sequence Information

Species Cynomolgus
Gene ID 102135935
Swiss Prot G7PJ78-1

Tags

N-His

Synonyms

Interleukin-31 □ IL-31 □ IL31

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE □ > 95% as determined by HPLC

Calculated MW	Observed MW
16.5 kDa	23-30 kDa

Endotoxin

Less than 1EU per µg by the LAL method.

Formulation

Reconstitution

Centrifuge the tube 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

Many autoimmune skin diseases, such as bullous pemphigoid (BP), psoriasis and certain types of chronic urticaria, are associated with intensive pruritus. While histamine and neuropeptides have previously been ascribed to play a role in itch that accompanies these diseases, recent evidence suggests that the pruritogenic cytokine interleukin (IL)-31 is a major driver of pruritic responses. IL-31 was originally shown to be produced by activated helper T cells, particularly Th2 cells, mast cells, macrophages and dendritic cells.

Basic Information

Description

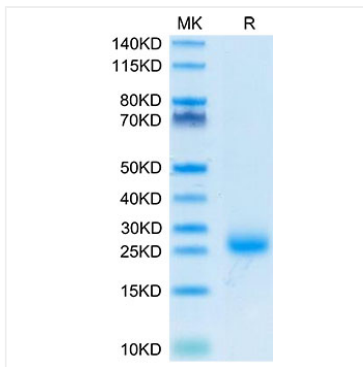
Recombinant Cynomolgus IL-31 Protein is expressed from Expi293 with His tag at the N-terminal. □ It contains Leu27-Thr163.

Bio-Activity

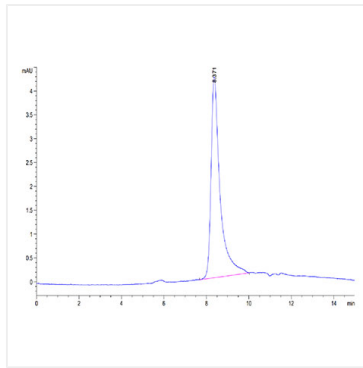
Storage

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.

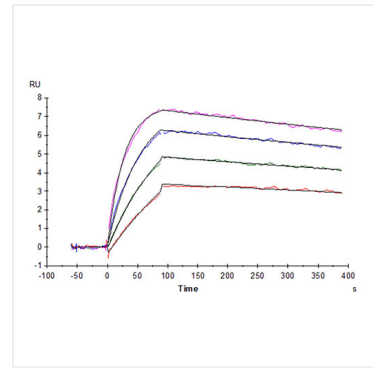
Validation Data



Cynomolgus IL-31 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Cynomolgus IL-31 is greater than 95% as determined by SEC-HPLC.



Human IL-31 RA, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus IL-31, His Tag with an affinity constant of 0.715 nM as determined in SPR assay (Biacore T200).