

Recombinant Cynomolgus IL-31 Protein

Catalog No.: RP02727

Sequence Information

Species	Gene ID
Cynomolgus	102135935
Swiss Prot	Tags
G7PJ78-1	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

< 1 EU/μg of the protein by 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.

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.

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.

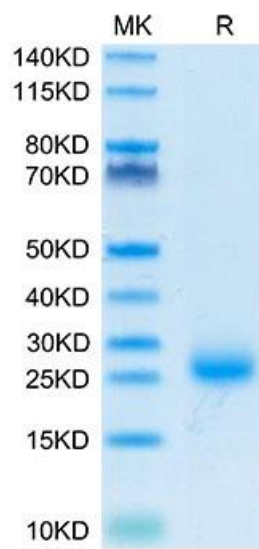
Contact

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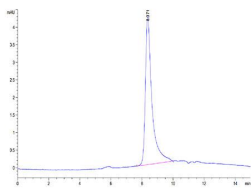
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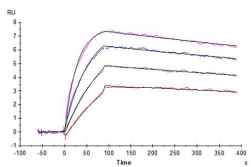
Validation Data



Recombinant Cynomolgus IL-31 Protein was determined by Tris-Bis PAGE under reducing conditions.



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).