

Biotinylated Recombinant Human IL-10 Protein

Catalog No.: RP02391B **Recombinant**

Sequence Information

Species Human **Gene ID** 3586 **Swiss Prot** P22301

Tags

N-His&Avi

Synonyms

CSIF; GVHDS; IL-10; IL10A;
TGIF;IL10;GVHDS;IL-10;IL10A;TGIF

Background

Interleukin 10 (IL10) is a key anti-inflammatory cytokine that can inhibit proinflammatory responses of both innate and adaptive immune cells. An association between IL10 and intestinal mucosal homeostasis became clear with the discovery that IL10 and IL10 receptor (IL10R)-deficient mice develop spontaneous intestinal inflammation. Similarly, patients with deleterious mutations in IL10, IL10RA, or IL10RB present with severe enterocolitis within the first months of life.

Basic Information

Description

Biotinylated Recombinant Human IL-10 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Ser19-Asn178) of Human IL-10 fused with a His tag and Avi tag at the N-terminal.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

Operational Notes

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

Product Information

Source

HEK293 cells

Purification

≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW

21.3 kDa

Observed MW

23-25 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

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

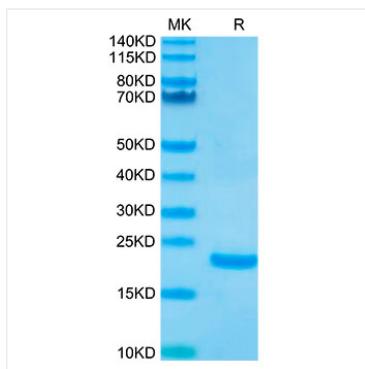
Reconstitution

Centrifuge the 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.

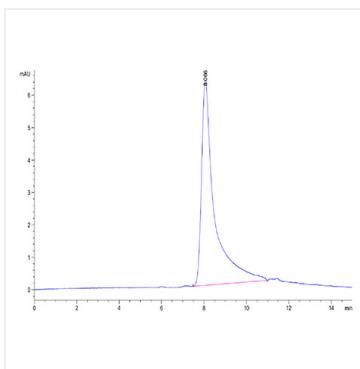
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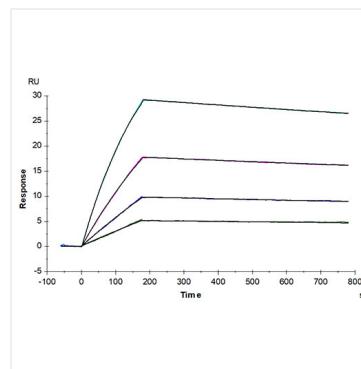
Validation Data



Biotinylated Recombinant Human IL-10 Protein was determined by Tris-Bis PAGE under reducing conditions with Coomassie Blue.



The purity of Biotinylated Human IL-10 is greater than 95% as determined by SEC-HPLC.



Human IL-10 R alpha, His Tag immobilized on CM5 Chip can bind Biotinylated Human IL-10, His Tag with an affinity constant of 0.30 nM as determined in SPR assay (Biacore T200).