Biotinylated Recombinant Human IL-10 Protein

Catalog No.: RP02391B

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

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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℃

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

Contact

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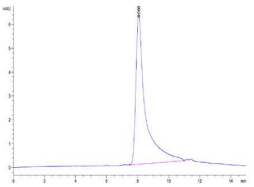
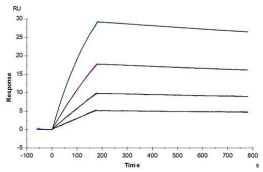
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

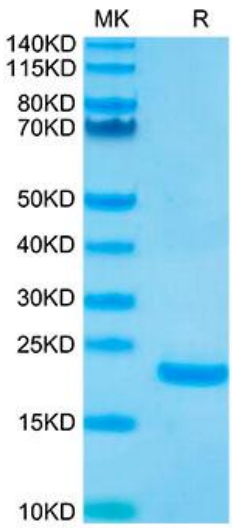
Validation Data



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).



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