Recombinant Human IL-22 Protein

Catalog No.: RP01616

Sequence Information

Species
Human

Gene ID
50616

Swiss Prot
Q9GZX6

Tags
C-His

Synonyms
Interleukin-22; IL-22; Cytokine Zcyto18; IL-TIF; IL-D110; TIFa; TIFIL-23; ZCYTO18,IL22

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
17.59 kDa

Observed MW
17-35 kDa

Endotoxin
< 0.1 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 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 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

The cytokine interleukin-22 (IL-22) is a critical regulator of epithelial homeostasis. It has been implicated in multiple aspects of epithelial barrier function, including regulation of epithelial cell growth and permeability, production of mucus and antimicrobial proteins (AMPs), and complement production.

Basic Information

Description
Recombinant Human IL-22 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala34-Ile179) of human IL-22 (Accession #NP_065386.1) fused with and a 6×His tag at the C-terminus.

Activity
Measured by its ability to induce IL-10 secretion in COLO 205 human colorectal adenocarcinoma cells. The ED_{50} for this effect is 160-640 pg/mL.

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℃

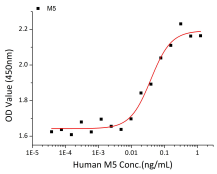
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

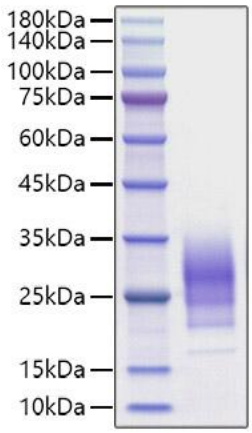
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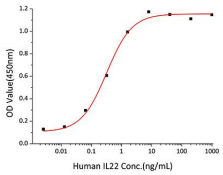
Validation Data



At concentrations ranging from 0.01 to 5 ng/mL, M5 factor (RP03505 IL1A,RP00212 IL17A,RP01616 IL22,RP00993 TNFα,RP00054 OSM)promotes the proliferation of HaCaT cells.



Recombinant Human IL-22 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL-22 induce IL-10 secretion in COLO 205 human colorectal adenocarcinoma cells. The ED_{50} for this effect is 160-640 pg/mL.