

Recombinant Human IL-22 Protein

Catalog No.: RP01616 Recombinant 1 Publications

Sequence Information

Species **Gene ID** **Swiss Prot**
 Human 50616 Q9GZX6

Tags

C-His

Synonyms

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

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.

Bio-Activity

Measured by its ability to induce IL-10 secretion in COLO 205 human colorectal adenocarcinoma cells. The ED₅₀ for this effect is 160-640 pg/mL.

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 **Purification**
 HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
 17.59 kDa 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.

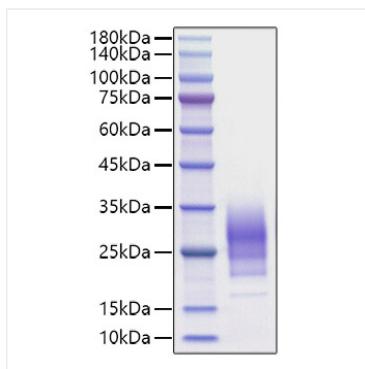
Reconstitution

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

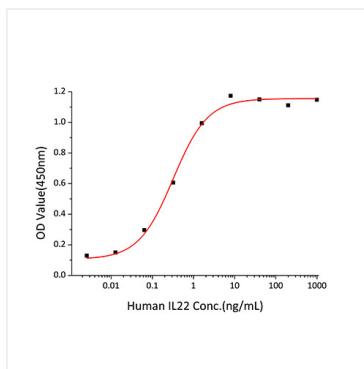
Contact

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Validation Data



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.