

Catalog No.: RP01616 **Recombinant** **1 Publications**

Species	Gene ID	Swiss Prot
Human	50616	O9GZX6

C-His

Synonyms
Interleukin-22; IL-22; Cytokine Zcyto18;
IL-T1F; IL-D110; T1Fa; T1FIL-23;
ZCYTO18; IL22

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

Calculated MW	Observed MW
17.59 kDa	17-35 kDa

< 0.1 EU/μg of the protein by LAL method.

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

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.

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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.

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.

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.

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

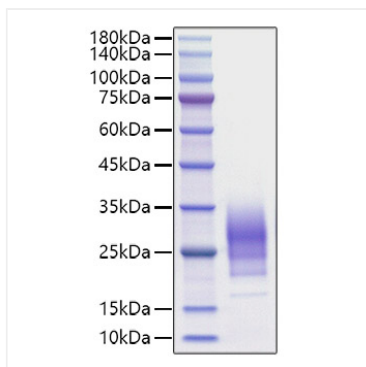
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

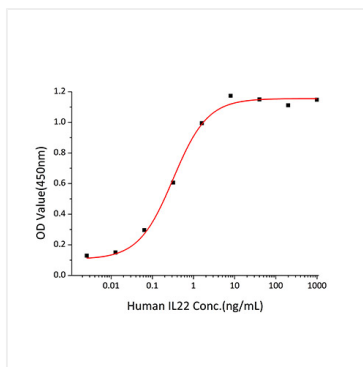
Avoid repeated freeze/thaw cycles.

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

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 ED₅₀ for this effect is 160-640 pg/mL.