Recombinant Mouse IL-22 Protein

Catalog No.: RP01617

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Sequence Information

Species
Mouse

Gene ID
50929

Swiss Prot
Q9JJY9

Tags
C-hFC

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
42.60 kDa

Observed MW
Approximately 60 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 Mouse IL-22 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu34-Val179) of mouse IL-22 (Accession #NP_058667.1) fused with and a hFc 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 150-600 ng/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℃

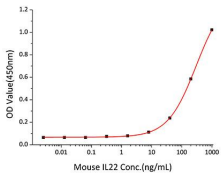
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

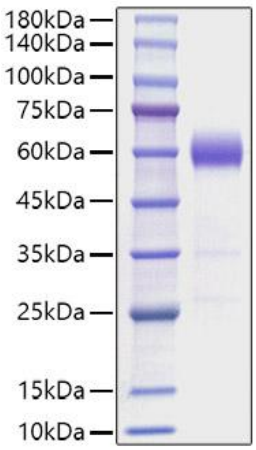
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Mouse IL-22 induce IL-10 secretion in COLO 205 human colorectal adenocarcinoma cells. The ED_{50} for this effect is 150-600 ng/mL.



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