

Recombinant Mouse IL-22 Protein

Catalog No.: RP02942

Sequence Information

Species **Gene ID**
Mouse 50929

Swiss Prot **Tags**
Q9JJY9 C-His

Synonyms

IL-22, If2b1, Itif, IL-22a, ILTIFa, IL22

Product Information

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

Calculated MW **Observed MW**
17.48 kDa 15 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

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

Reconstitution

Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water.

Background

Interleukin-22 (IL-22) was initially identified as a gene induced by IL-9 in mouse T cells and mast cells. Mouse IL-22 cDNA encodes a 179 amino acid residue protein with a putative 33 amino acid signal peptide that is cleaved to generate a 147 amino acid mature protein that shares approximately 79% and 22% sequence identity with human IL22 and IL10, respectively. IL22 has been shown to activate STAT-1 and STAT-3 in several hepatoma cell lines and up-regulate the production of acute phase proteins. IL-22 is produced by normal mouse T cells upon Con A activation. Mouse IL-22 expression is also induced in various organs upon lipopolysaccharide injection, suggesting that IL-22 may be involved in inflammatory responses. The functional IL-22 receptor complex consists of two receptor subunits, IL-22R (previously an orphan receptor named CRF2-9) and IL-10Rβ (previously known as CRF2-4), belonging to the class II cytokine receptor family.

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 6xHis at the C-terminus.

Activity

Measured by its ability to induce IL-10 secretion in COLO 205 human colorectal adenocarcinoma cells. The ED₅₀ for this effect is 0.1–0.4 ng/mL, corresponding to a specific activity of 2.5×10⁶–1.0×10⁷ units/mg.

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°C

Operational Notes

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

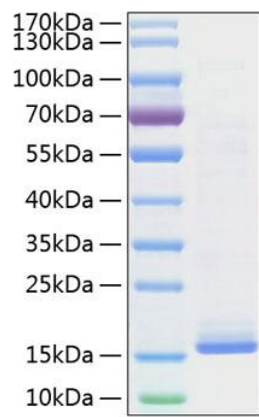
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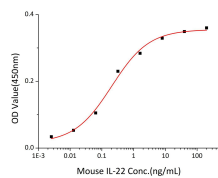
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Validation Data



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



Recombinant Mouse IL-22 induce IL-10 secretion in COLO 205 human colorectal adenocarcinoma cells. The ED₅₀ for this effect is 0.1-0.4 ng/mL, corresponding to a specific activity of 2.5×10⁶~1.0×10⁷ units/mg.