

Recombinant Mouse IL-22 Protein

Catalog No.: RP02942 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	50929	Q9JJY9

Tags

C-His

Synonyms

IL-22; If2b1; Iltif; IL-22a; ILTIFa

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
17.48 kDa	15 kDa

Endotoxin

<0.01EU/μg

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.

Bio-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.

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.

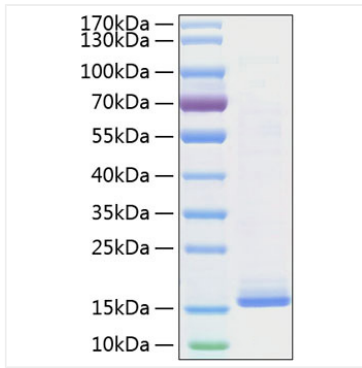
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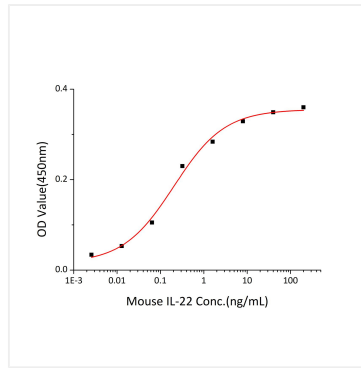
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Validation Data



Recombinant Mouse IL-22 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15 kDa.



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 $2.5 \times 10^6 \sim 1.0 \times 10^7$ units/mg.