

# Biotinylated Mouse IL-22 Protein

Cat. No. IL2-ME422B

## Description

**Source** Recombinant Biotinylated Mouse IL-22 Protein is expressed from E.coli with His tag and Avi tag at the N-Terminus.

It contains Leu34-Val179.

**Accession** Q9JJY9

**Molecular Weight** The protein has a predicted MW of 19.7 kDa same as Tris-Bis PAGE result.

**Endotoxin** Less than 1EU per µg by the LAL method.

**Purity** > 95% as determined by Tris-Bis PAGE

> 90% as determined by HPLC

## Formulation and Storage

**Formulation** Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

**Reconstitution** Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.

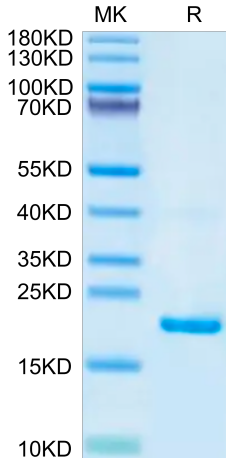
**Storage** -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

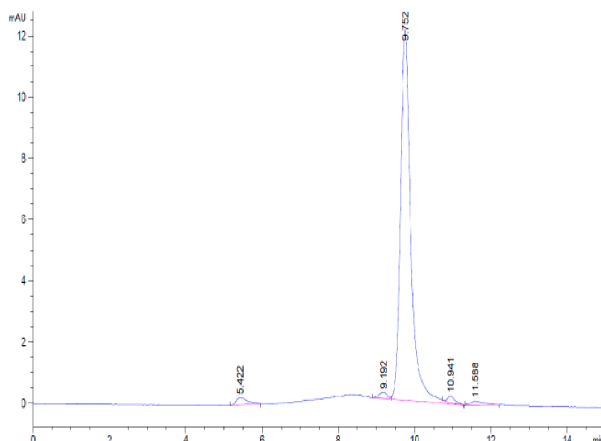
## Assay Data

### Tris-Bis PAGE



Biotinylated Mouse IL-22 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



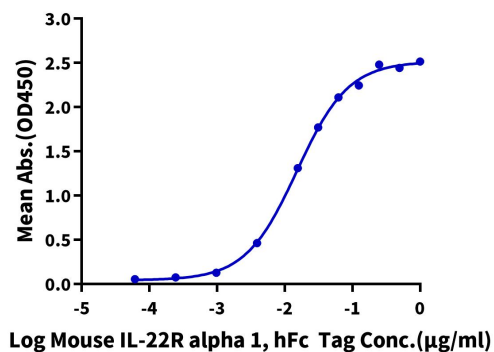
The purity of Biotinylated Mouse IL-22 is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

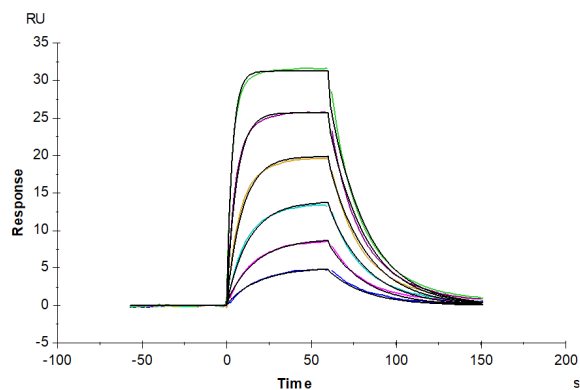
**Biotinylated Mouse IL-22, His Tag ELISA**

0.2µg Biotinylated Mouse IL-22, His Tag Per Well



Immobilized Biotinylated Mouse IL-22, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Mouse IL-22R alpha 1, hFc Tag with the EC50 of 15.2ng/ml determined by ELISA (QC Test).

SPR Data



Rat IL-22R alpha 1, His Tag immobilized on CM5 Chip can bind Biotinylated Mouse IL-22, His Tag with an affinity constant of 0.145 µM as determined in SPR assay (Biacore T200).