

For Research Use Only

# Recombinant Human IL-22 protein (His Tag)



Catalog Number: Eg0228

## Basic Information

**ED50:**  
/

**GeneID:**  
50616

**Species:**  
Human

**Accession:**  
Q9GZX6

**Purity:**  
>90 %, SDS-PAGE

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<1.0 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human IL-22 protein Met+Ala34-Ile179 (Accession# Q9GZX6) with a His tag at the N-terminus.

**Predicted Molecular Mass:**  
17.6 kDa

**SDS-PAGE:**  
20-27 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**  
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

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

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Interleukin 22 (IL-22) is a member of the human type I interferon family, which includes IL10. IL-22 has the potential to interact with IL10 because it binds to the IL-10R2c chain with IL-22R1 in its receptor complex. Binding can be blocked by the soluble receptor, IL-22 binding protein (IL-22BP). Although known as a Th17 cytokine, IL-22 is also expressed by a wide range of immune cells, including NK T,  $\gamma$   $\delta$  T, and NK cells. IL-22 can contribute to immune disease through the stimulation of inflammatory responses, S100s and defensins. IL-22 also promotes hepatocyte survival in the liver and epithelial cells in the lung and gut similar to IL-10.

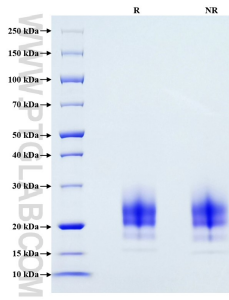
## References

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2. Wolk K, et al. (2002) *J Immunol* 168(11): 5397-5402.
3. Zheng Y et al. (2007) *Nature* 445: 648-651.
4. Zheng Y et al. (2008) *Nat Med* 14: 282-289.
5. Xie MH, et al. (2000) *J Biol Chem*. 275: 31335-9.
6. Jones BC, et al. (2008) 16:1333-44.

## Synonyms

IL22,Cytokine Zcyto18,IL 21,IL 22,IL D110

## Selected Validation Data



Purity of Recombinant Human IL-22 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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