

**Animal-Free Recombinant Human IL -22**  
**Catalog # PBG10524****Specification**

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**Animal-Free Recombinant Human IL -22 - Product Information****Animal-Free Recombinant Human IL -22 - Additional Information****Description**

IL-22 is a member of the IL-10 family of regulatory cytokines which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes, IL-22 inhibits IL-4 production by Th2 cells, and induces acute phase reactants in the liver and pancreas. IL-22 signals through a receptor system consisting of IL-10R- $\beta$ /CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family. Recombinant human IL-22 is a 33.6 kDa non-disulfide-linked homodimeric protein containing of two 146 amino acid polypeptide chains.

**BiologicalActivity**

**Assay #1:** Determined by its ability to activate STAT following receptor ligand interaction.  
**Assay #2:** Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The expected ED<sub>50</sub> for this effect is 0.7- 1.0 ng/ml.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/  $\mu$ g of protein (<1EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Animal-Free Recombinant Human IL -22 is for research use only and not for use in diagnostic or therapeutic procedures.

**Animal-Free Recombinant Human IL -22 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Animal-Free Recombinant Human IL -22 - Images**