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# Recombinant Human Interleukin-22/IL-22 Protein (C-hlgG4 Fc)

Catalog Number: PKSH032633

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

Species Human

Source HEK293 Cells-derived Human IL-22 protein Ala34-Ile179, with an C-terminal hIgG4 Fc

 Calculated MW
 43.4 kDa

 Observed MW
 50-75 kDa

 Accession
 Q9GZX6

**Bio-activity** Not validated for activity

# **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin**  $< 1.0 \text{ EU} \text{ per } \mu\text{g} \text{ of the protein as determined by the LAL method.}$ 

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

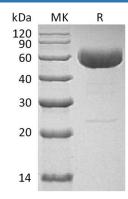
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

# **Data**



> 95 % as determined by reducing SDS-PAGE.

### **Background**

# Elabscience®

# Elabscience Biotechnology Co., Ltd.

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Interleukin-22(IL-22) is a member of a group of the IL-10 family; a class of potent mediators of cellular inflammatory responses. IL-22 is produced by activated DC and T cells. IL-22 and IL-10 receptor chains play a role in cellular targeting and signal transduction. It can initiate and regulate innate immune responses against bacterial pathogens especially in epithelial cells such as respiratory and gut epithelial cells. IL-22 along with IL-17 likely plays a role in the coordinated response of both adaptive and innate immune systems. IL-22 also promotes hepatocyte survival in the liver and epithelial cells in the lung and gut similar to IL-10. Biological activity of IL-22 is initiated by binding to a cell-surface complex consisting of IL-22R1 and IL-10R2 receptor chains. IL-22 biological activity is further regulated by interactions with a soluble binding protein; IL-22BP. IL-22BP and an extracellular region of IL-22R1 share sequence similarity. In some cases; the pro-inflammatory versus tissue-protective functions of IL-22 are regulated by cytokine IL-17A.