

## IL-22 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P73192
Synonyms:	Interleukin-22; IL-22; Cytokine Zcyto 18; IL-TIF
Species:	Human
Source:	P. pastoris
Accession:	Q9GZX6 (A34-I179)
Gene ID:	50616
Molecular Weight:	Approximately 18.1 kDa

### PROPERTIES

Appearance	Lyophilized powder.
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.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	IL-22 Protein assumes a pivotal role in modulating tissue responses during inflammation, demonstrating a crucial involvement in the regeneration of epithelial cells to preserve barrier function following injury and forestall further tissue damage. Unlike most cytokines, IL-22 exerts no influence on immune cells, relying on a heterodimeric receptor comprising the specific IL22RA1 receptor, found on non-immune cells in various organs, and the shared subunit IL10RB. The binding of IL-22 to IL22RA1 activates the tyrosine kinases JAK1 and TYK2, subsequently triggering STAT3 activation. This, in turn, promotes cell survival and proliferation through the STAT3, ERK1/2, and PI3K/AKT pathways, contributing to the phosphorylation of GSK3B at 'Ser-9' and CTTN. Additionally, IL-22 fosters epithelial cell spreading.
------------	--

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA