GFH91 Recombinant Human IL-22

Description

Interleukin-22 (IL-22) is an IL-10 family member that is produced by activated dendritic cells and T lymphocytes. IL-22 signals via a heteroduplex receptor consisting of IL-22R and IL-10Rβ chains. IL-22 is a potent mediator of cellular inflammatory responses.

Length	147 / 294 aa
Molecular Weight	16.9 / 33.8 kDa
Source	E. coli
Accession Number	Q9GZX6
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

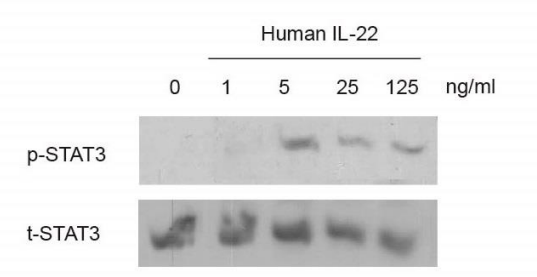
Specifications

Alternative Names	Interleukin-12, interleukin 12, IL12, IL 12
Biological Activity	Human IL-22 is fully biologically active when compared to standard. The activity is determined by the ability to phosphorylate STAT3 when added to HepG2 cells.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, pH 3.0
AA Sequence	MAPISSHCRL DKSNFQQPYI TNRTFMLAKE ASLADNNTDV RLIGEKLFHG VSMSERCYLM KQVLNFTLEE VLFPQSDRFQ PYMQEVVPFL ARLSNRLSTC HIEGDDLHIQ RNVQKLKDTV KKLGESGEIK AIGELDLLFM SLRNACI

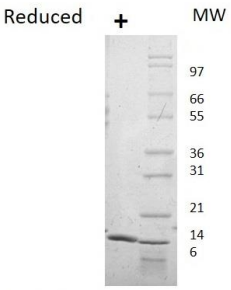
Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM HCl at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



STAT3 phosphorylation is detectable starting at 1 ng/ml.



Reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue, 1 µg of protein was loaded. Human IL-22 has a predicted Mw of 33.8 kDa.