



*Recombinant Human IL-22*  
(Interleukin-22)

*Catalog Number: 100-91*  
*Accession Number: Q9GZX6*

*Specifications and Uses:*

**Alternate Names:** IL-TIF

**Description:**

Interleukin-22 (IL-22), also called IL-TIF, is an IL-10 family member, produced by activated dendritic cells and T lymphocytes. IL-22 signals via the IL-22R and IL-10Rbeta receptors to act as a potent mediator of the cellular inflammatory response. Recombinant human IL-22 is a non-disulfide-linked homodimer, containing two 146 amino acids, with a total molecular weight of 33.6 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human IL-22 is lyophilized from 10 mM sodium citrate, pH 3.0. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term 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 water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically ≥ 97%) determined by:**

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

**Biological Activity:**

The activity is determined by the dose-dependent co-stimulation of MC/9 cells in the presence of IL-4 and is typically less than 2.0 ng/mL.

**AA Sequence:**

MAPISSHCRL DKSNFQQPYI TNRTFMLAKE ASLADNNTDV RLIGEKLFHG VMSERCYLM KQVLNFTLEE  
VLFPQSDRFQ PYMQEVVPFL ARLSNRLSTC HIEGDDLHIQ RNVQKLKDTV KKLGESGEIK AIGELDLLFM  
SLRNACI

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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