



Interleukin-22, human recombinant (rHuIL-22)

Catalog No: 87326
Lot No: XXXXX
Source: *E. coli*
Synonyms: IL-TIF, TIFa, IL-10-related T-cell-derived-inducible factor, IL-22, ILTIF, IL-D110, zcyto18, MGC79382, MGC79384, TIFIL-23

Background

IL-22 is a member of the IL-10 family of regulatory cytokines. 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.

Description

Interleukin-22 human recombinant produced in *E. coli* is a single, non-glycosylated homodimeric polypeptide chain containing 2 x 146 amino acids and having a total molecular mass of 33.607 Dalton. IL-22 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Each mg contains 50 mM Phosphate buffer pH 7.1.

Solubility

It is recommended to reconstitute the lyophilized Interleukin-22 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interleukin-22, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-22 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Pro-Ile-Ser.

Activity

The Biological Activity was determined by the ability to activate STAT following receptor ligand interaction.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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