
Product Data Sheet

Product Name: IL 22 Human
 Cat. No.: GP20620
 Batch No.: 1

Product Data

Purity	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	IL-TIF; TIFa; IL-10-related T-cell-derived-inducible factor; IL-22; ILTIF; IL-D110; zcyto18; MGC79382; MGC79384; TIFIL-23.		
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.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin -22 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Each mg contains 50mM Phosphate buffer pH=7.1.		

Introduction

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.

Biological Activity

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

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

Lyophilized Interleukin-22 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL22 should be stored at 4°C between 2-7 days and for future use below -18°C . Please prevent freeze-thaw cycles.

Background

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. The IL-22 is purified by proprietary chromatographic techniques.

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