



## Product Datasheet

<b>Product Name</b>	Interleukin-22 Human Recombinant
<b>Cata No</b>	CB500230
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	IL-TIF, TIFa, IL-10-related T-cell-derived-inducible factor, IL-22, ILTIF, IL-D110, zcyto18, MGC79382, MGC79384, TIFIL-23.

### Description

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.

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.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

The Biological Activity was determined by the ability

to activate STAT following receptor ligand interaction.

### Purity

Greater than 97.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Formulation

Each mg contains 1.6mg mannitol and 1.2mg HSA.

### 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.**

### Sequence

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

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