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## Product Data Sheet

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Product Name: IL 22 Mouse  
 Cat. No.: GP20622  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	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-Leu-Pro-Val-Asn.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin -22 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from 1X PBS.		

### Introduction

Interleukin-22 (IL-22), also known as IL-10-related T cell-derived inducible factor (IL-TIF) was initially identified as a gene induced by IL-9 in mouse T cells and mast cells. Mouse IL-22 cDNA encodes a 179 amino acid residue protein with a putative 33 amino acids signal peptide that is cleaved to generate a 147 aa mature protein that shares approximately 79% and 22% aa sequence identity with human IL-22 and IL-10, respectively. IL-22 has been shown to activate STAT-1 and STAT-3 in several hepatoma cell lines and upregulate the production of acute phase proteins. IL-22 is produced by normal mouse T cells upon Con A activation. Mouse IL-22 expression is also induced in various organs upon lipopolysaccharide injection, suggesting that IL-22 may be involved in inflammatory responses. The functional IL-22 receptor complex consists of two receptor subunits, IL-22R (previously an orphan receptor named CRF2-9) and IL-10R? (previously known as CRF2-4), belonging to the class II cytokine receptor family.

### Biological Activity

The ED50 as determined by its ability to induce IL-10 secretion in Colo205 cells is less

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than 0.5ng/ml, corresponding to a Specific Activity of 2,000,000IU/mg.

### Stability

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

### Background

Interleukin-22 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 147 amino acids and having a molecular mass of 16.7 kDa. The Murine IL-22 is purified by proprietary chromatographic techniques.

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