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## Product Data Sheet

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Product Name: IL 22 Rat  
 Cat. No.: GP20623  
 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 | LPINSQCKLE AANFQOPYIV NRTFMLAKEA SLADNNTDVR LIGEELFRGV<br>KAKDQCYLMK QVLNFTLEDV LLPQSDRFQP YMQEVVPLT KLSIHLSPCH<br>ISGDDQNIQK NVRQLKETVQ KLGESGEIKA IGELDLLFMS LRNACV.                      |                    |                       |
| 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 a 0.2μm filtered concentrated solution in 1xPBS, pH 7.4.                                                                                                                   |                    |                       |

### 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 is measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The expected ED50 for this effect is 0.15-0.75ng/ml.

### Stability

Lyophilized Interleukin-22 although stable at room temperature for 3 weeks, should be

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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

IL-22 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16.6kDa.The IL22 is purified by proprietary chromatographic techniques.

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