

# Active Recombinant Human IL18 protein

**Cat. No.** IL18-336H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human IL18 was expressed in E. coli.                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Interleukin 18 (IL-18), previously known as interferon-gamma (IFN-gamma)-inducing factor, is an activator of NK cells and a co-inducer of Th1 cytokines. IL-18 is produced from Kupffer cells, activated macrophages, keratinocytes, intestinal epithelial cells, osteoblasts, adrenal cortex cells and murine diencephalon. |
| <b>Form</b>             | Liquid. In Phosphate buffer saline (pH 7.4)                                                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | Measured by its ability to induce IFN-gamma secretion using KG-1 human myeloid leukemia cells in the presence of TNF-alpha (20 ng/ml). The ED50 for this effect is < 0.85 ug/ml.                                                                                                                                             |
| <b>Molecular Mass</b>   | 18.3kDa (158aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MYFGKLESKL SVIRNLNDQV LFIDQGNRPL FEDMTDSDCR DNAPRTIFII<br>SMYKDSQPRG MAVTISVKCE KISTLSCENK IISFKEMNPPDNIKDTKSDI<br>IFFQRSVPGH DNKMQFESSS YEGYFLACEK ERDLFKLILK KEDELGDRSI<br>MFTVQNED                                                                                                                                        |
| <b>Endotoxin</b>        | < 1.0 EU per 1 microgram of protein (determined by LAL method)                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>              | > 95% by SDS - PAGE                                                                                                                                                                                  |
| <b>Storage</b>             | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.                     |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay)                                                                                                                                                               |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                      |
| <b>Gene Name</b>           | IL18 interleukin 18 (interferon-gamma-inducing factor) [ Homo sapiens ]                                                                                                                              |
| <b>Official Symbol</b>     | IL18                                                                                                                                                                                                 |
| <b>Synonyms</b>            | IL18; interleukin 18 (interferon-gamma-inducing factor); interleukin-18; IGIF; IL 1g; IL 18; IL1F4; IL-1 gamma; iboctadecin; interleukin-1 gamma; IFN-gamma-inducing factor; IL-18; IL-1g; MGC12320; |
| <b>Gene ID</b>             | 3606                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_001562                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_001553                                                                                                                                                                                            |
| <b>MIM</b>                 | 600953                                                                                                                                                                                               |
| <b>UniProt ID</b>          | Q14116                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 11q22.2-q22.3                                                                                                                                                                                        |
| <b>Pathway</b>             | African trypanosomiasis, organism-specific biosystem; African trypanosomiasis,                                                                                                                       |

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conserved biosystem; Cellular roles of Anthrax toxin, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem;

|                 |                                       |
|-----------------|---------------------------------------|
| <b>Function</b> | cytokine activity; cytokine activity; |
|-----------------|---------------------------------------|

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