

## Active Recombinant Human IL18, His tagged

Cat. No. IL18-490H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Interleukin-18/IL-18 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Tyr37-Asp193) of Human IL-18 fused with a polyhistidine tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	37-193 a.a.
<b>Description</b>	Interleukin-18 is a secreted protein and it belongs to the IL-1 family. IL-18 is a proinflammatory cytokine and produced by macrophages and other cells. This cytokine can induce the IFN-gamma production of T cells. The combination of this cytokine and IL12 has been shown to inhibit IL-4 dependent IgE and IgG1 production, and enhance IgG2a production of B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity. After stimulation with IL-18, natural killer (NK) cells and certain T cells release another important cytokine called interferon- $\gamma$ (IFN- $\gamma$ ) or type II interferon that plays an important role in activating the macrophages or other cells.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ M filtered solution of PBS,pH 7.4.
<b>Bio-activity</b>	$>1.0 \times 10^4$ U/mg
<b>Endotoxin</b>	Less than 0.1

 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

	EU/μg.
<b>Purity</b>	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 months. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 5 months.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## GENE INFORMATION

<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; iboctadekin; interleukin-1 gamma; IFN-gamma-inducing factor; IL-18; IL-1g; MGC12320;
<b>Gene ID</b>	3606
<b>mRNA Refseq</b>	NM_001243211
<b>Protein Refseq</b>	NP_001230140
<b>MIM</b>	600953

 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>UniProt ID</b>	Q14116
<b>Chromosome Location</b>	11q22.2-q22.3
<b>Pathway</b>	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, 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;

 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