

## Active Recombinant Human Interleukin 18

Cat. No. IL18-433H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Interleukin-18 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 157 amino acids and having a molecular mass of 18302 Dalton. The IL-18 is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	IL-18 is a proinflammatory cytokine. This cytokine can induce the IFN-gamma production of T cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 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.
<b>Form</b>	Lyophilized from a concentrated (1mg/ml) solution in water containing 0.5x PBS pH=7.3.
<b>Purity</b>	Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Bio-activity</b>	The ED50 as determined by the dose-dependant stimulation of the IFN-g by human PBMC co-stimulated with IL-12 was found to be 5ng/ml corresponding to a Specific Activity of 200,000IU/mg.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.

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<b>Solubility</b>	It is recommended to reconstitute the lyophilized Interleukin 18 in sterile 18M $\mu$ -cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
<b>Storage</b>	Lyophilized Interleukin 18 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL18 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Pathways</b>	African trypanosomiasis; Cellular roles of Anthrax toxin; Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Hypertrophy Model; IL12 signaling mediated by STAT4; IL12-mediated signaling events; Immune System; Influenza A; Interleukin-1 processing; Malaria; NOD-like receptor signaling pathway; Rheumatoid arthritis; Signaling by Interleukins; Tuberculosis

## GENE INFORMATION

<b>Gene Name</b>	IL18 interleukin 18 (interferon-gamma-inducing factor) [ Homo sapiens ]
<b>Official Symbol</b>	IL18
<b>Synonyms</b>	Interferon-gamma-inducing factor; IGIF; IL-1g; IL-18; IL1F4; MGC12320; IFN-gamma-inducing factor; Interleukin-1 gamma; IL-1 gamma; Iboctadekin; IL18
<b>Gene ID</b>	3606
<b>mRNA Refseq</b>	NM_001562
<b>Protein Refseq</b>	NP_001553

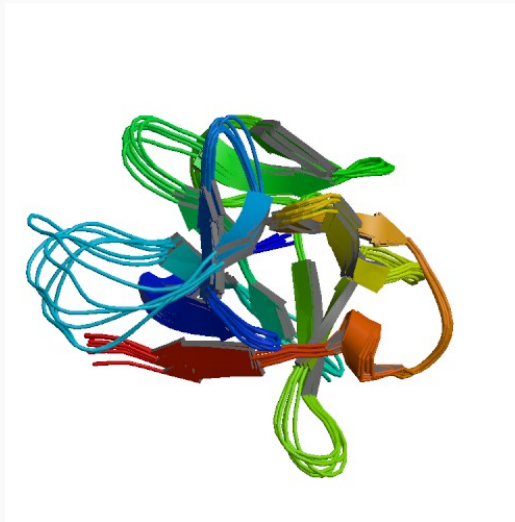
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<b>MIM</b>	600953
<b>UniProt ID</b>	Q14116
<b>Chromosome Location</b>	11q22.2-q22.3
<b>Function</b>	cytokine activity; signal transducer activity

PDB rendering based on 1J0S.



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