

Active Recombinant Human IL18, His tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
ProteinLength	37-193 a.a.
Description	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- γ (IFN- γ) or type II interferon that plays an important role in activating the macrophages or other cells.
Form	Lyophilized from a 0.2 μ M filtered solution of PBS,pH 7.4.
Bio-activity	$>1.0 \times 10^4$ U/mg
Endotoxin	Less than 0.1

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	EU/μg.
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at< -20°C,="" though="" stable="" at="" room="" temperature="" for="" 3="">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="">
Reconstitution	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

Gene Name	IL18 interleukin 18 (interferon-gamma-inducing factor) [Homo sapiens]
Official Symbol	IL18
Synonyms	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;
Gene ID	3606
mRNA Refseq	NM_001243211
Protein Refseq	NP_001230140
MIM	600953

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UniProt ID	Q14116
Chromosome Location	11q22.2-q22.3
Pathway	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;
Function	cytokine activity; cytokine activity;