

Active Recombinant Human Interleukin 18

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human
Description	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.
Form	Lyophilized from a concentrated (1mg/ml) solution in water containing 0.5x PBS pH=7.3.
Purity	Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Bio-activity	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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.

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Solubility	It is recommended to reconstitute the lyophilized Interleukin 18 in sterile 18M μ -cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	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.
Pathways	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

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

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

PDB rendering based
on 1J0S.

