

Active Recombinant Human IL18 protein

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

SPECIFICATION

Product Overview	Recombinant Human IL18 was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In Phosphate buffer saline (pH 7.4)
Bio-activity	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.
Molecular Mass	18.3kDa (158aa), confirmed by MALDI-TOF.
AA Sequence	MYFGKLESKL SVIRNLNDQV LFIDQGNRPL FEDMTDSDCR DNAPRTIFII SMYKDSQPRG MAVTISVKCE KISTLSCENK IISFKEMNPPDNIKDTKSDI IFFQRSVPGH DNKMQFESSS YEGYFLACEK ERDLFKLILK KEDELGDRSI MFTVQNE
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)

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

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Purity	> 95% by SDS - PAGE
Storage	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.
Concentration	1 mg/ml (determined by Bradford assay)
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_001562
Protein Refseq	NP_001553
MIM	600953
UniProt ID	Q14116
Chromosome Location	11q22.2-q22.3
Pathway	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;

Function

cytokine activity; cytokine activity;

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