

Active Recombinant Human IL18 (37-193aa)

Cat. No. IL18-335H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IL18 (Q14116, 37 a.a.-193 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
Description	Interleukin-18 also known as IL18 is a protein which in humans is encoded by the IL18 gene. The protein encoded by this gene is a proinflammatory cytokine. IL-18 is a cytokine produced by macrophages and other cells that belongs to the IL-1 superfamily. IL-18 works by binding to the interleukin-18 receptor, and together with IL-12 it induces cell-mediated immunity following infection with microbial products like lipopolysaccharide (LPS). After stimulation with IL-18, natural killer (NK) cells and certain T cells release another important cytokine called interferon- μ (IFN- μ) or type II interferon that plays an important role in activating the macrophages or other cells.
Sequence	ENLESDYFGK LESKLSVIRN LNDQVLFIDQ GNRPLFEDMT DSDCRDNAPR TIFIISMYKD SQPRGMAVTI SVKCEKISTL SCENKIISFK EMNPPDNIKD TKSDIIFQ R SVPGHDNKM FESSYEGYF LACEKERDLF KLILKKEDEL GDRSIMFTVQ NED
Theoretical MW (kDa)	18
Form	Liquid

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Preparation Method	Escherichia coli expression system
Purity	> 98% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED50 was determined by the dose-dependent proliferation of human PBMC co-stimulated with IL-12 cells was found to be in the range of 5 ng/mL
Application	SDS-PAGE
Storage Buffer	In PBS
Storage	Store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P01563
Pathways	African trypanosomiasis; African trypanosomiasis; Cellular roles of Anthrax toxin; Cytokine-cytokine receptor interaction; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Cytosolic DNA-sensing pathway; Hypertrophy Model; IL12 signaling mediated by STAT4; IL12-mediated signaling events; IL23-mediated signaling events; Influenza A; Interleukin-1 processing; Malaria; NOD-like receptor signaling pathway; Rheumatoid arthritis; Signaling by Interleukins; Signaling in Immune system; Tuberculosis

GENE INFORMATION

Gene Name	IL18 interleukin 18 (interferon-gamma-inducing factor) [Homo sapiens]
Official Symbol	IL18

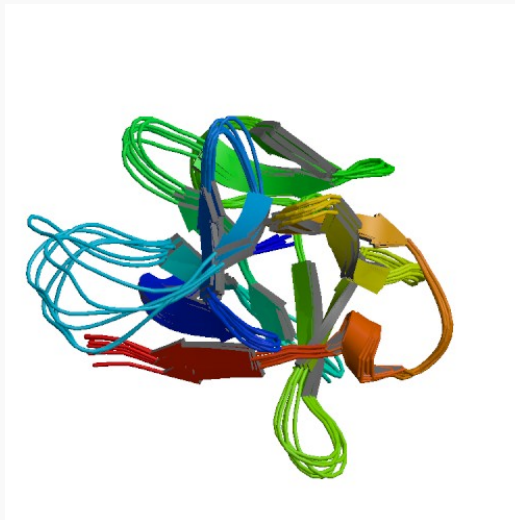
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Synonyms	IL18; interleukin 18 (interferon-gamma-inducing factor); IGIF; IL-18; IL-1g; IL1F4; MGC12320; interleukin-18; IL-1 gamma; iboctadecin; OTTHUMP00000234749; OTTHUMP00000234750; OTTHUMP00000234751; interleukin-1 gamma; IFN-gamma-inducing factor; Interferon gamma-inducing factor; Iboctadecin; Interleukin-1 gamma
Gene ID	3606
mRNA Refseq	NM_001562
Protein Refseq	NP_001553
MIM	600953
Chromosome Location	Q14116
Function	cytokine activity; cytokine activity; signal transducer activity

PDBrendering based on 1J0S.



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