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 TKSDIIFFQR SVPGHDNKMQ FESSSYEGYF LACEKERDLF KLILKKEDEL GDRSIMFTVQ NED
Theoretical MW (kDa)	18
Form	Liquid

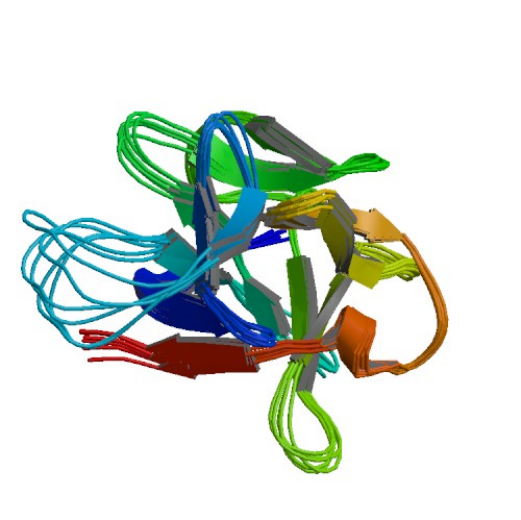
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Preparation Method	Escherichia coli expression system
Purity	> 98% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED50 was determined by the dose-dependent proliferation of human PBMC co-stimulated with IL-12 cells was found 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; iboctadekin; OTTHUMP00000234749; OTTHUMP00000234750; OTTHUMP00000234751; interleukin-1 gamma; IFN-gamma-inducing factor; Interferon gamma-inducing factor; Iboctadekin; 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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