

## Active Recombinant Human IL18 protein, His-tagged

**Cat. No.** IL18-2296H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human IL18 protein(Q14116)(37~193 aa), fused with N-terminal His tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	37-193 aa
<b>Form</b>	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	<p>Interleukin-18 (IL18, also known as interferon-gamma inducing factor) is a proinflammatory cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. IL18 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). Besides, Caspase 1 (CASP1) has been identified as an interactor of IL18, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IL18 and recombinant human CASP1. Briefly, IL18 were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to CASP1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL18 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate</p>

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solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of IL18 and CASP1 was shown, and this effect was in a dose dependent manner.

<b>Molecular Mass</b>	19.5kDa
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method).
<b>Purity</b>	> 90% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

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

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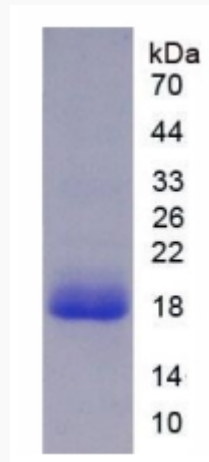
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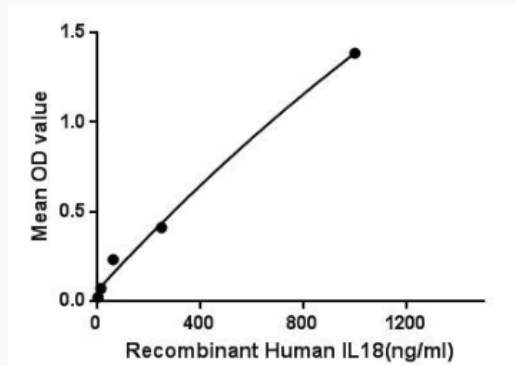
**MIM** 600953

**UniProt ID** Q14116

**SDS-PAGE**



**Activity**



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