

## Active Recombinant Mouse Il18 Protein, His-Tagged

Cat. No. II18-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Il18 Protein, His-tagged was expressed in E. coli cell
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	<p>Interleukin-18 (L-18) is a cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. 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-<math>\gamma</math> (IFN-<math>\gamma</math>) or type II interferon that plays an important role in activating the macrophages or other cells. The combination of this cytokine and IL12 has been shown to inhibit IL-4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity.</p>
<b>Form</b>	Lyophilized powder
<b>AA Sequence</b>	<p>MNFGRLHCTTAVIRNINDQVLFVDKRQPVFEDMTDIDQSASEPQTRLIIYMYKDSEVR            GLAVTLVSKDSKMSTLSCNKIISFEEMDPPENIDD            IQSDLIFFQKRVPGHNKMEFESSLYEGHFLACQKEDDAFKLILKKKDENGDKSVMFT            LTNLHQS with polyhistidine tag at the C-terminus</p>
<b>Endotoxin</b>	<0.1 EU per 1

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	µg of the protein by the LAL method.
<b>Bio-activity</b>	Measure by its ability to induce IFN gamma secretion in KG-1 cells. The ED50 for this effect is <0.5 µg/mL.
<b>Purity</b>	>98% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Notes</b>	Please use within one month after protein reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	Il18 interleukin 18 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Il18
<b>Synonyms</b>	IGIF; IL-18; IL-1g; IL1F4
<b>Gene ID</b>	16173
<b>mRNA Refseq</b>	NM_001357221.1
<b>Protein Refseq</b>	NP_001344150.1

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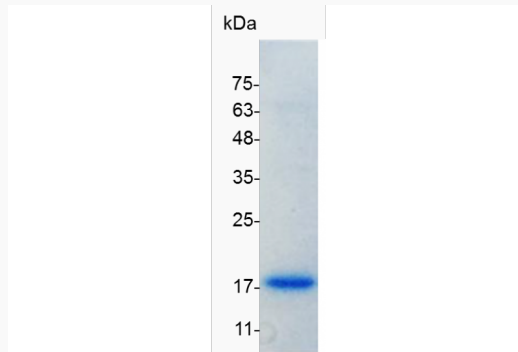
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UniProt ID

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