

Active Recombinant Mouse Il18 Protein, His-Tagged

Cat. No. Il18-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Il18 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	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-γ (IFN-γ) 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.
Form	Lyophilized powder
AA Sequence	MNFGRLHCTTAVIRNINDQVLFVDKRQPVFEDMTDIDQSASEPQTRLIIYMYKDSEVR GLAVTL SVKDSKMSTLSCKNKIISFEEMDPPENIDD IQSDLIFFQKRVP GHNKMEFESSLYEGHFLACQKEDDAFKLILKKKDENGDKSVMFT LTNLHQS with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1

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	µg of the protein by the LAL method.
Bio-activity	Measure by its ability to induce IFN gamma secretion in KG-1 cells. The ED50 for this effect is <0.5 µg/mL.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 8.0.
Reconstitution	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.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	IL18 interleukin 18 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL18
Synonyms	IGIF; IL-18; IL-1g; IL1F4
Gene ID	16173
mRNA Refseq	NM_001357221.1
Protein Refseq	NP_001344150.1

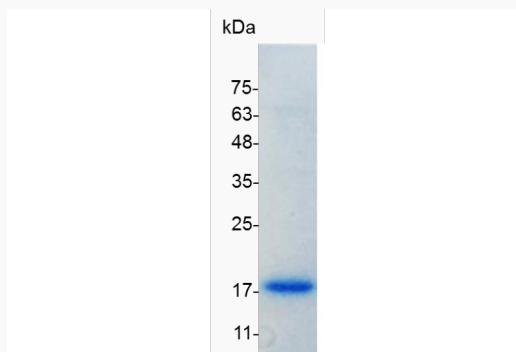
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UniProt ID

P70380

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