### **RMCM016**

Recombinant IL-18 (Interleukin-18), Mouse, AF



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## Synonym/Alternative name(s): IGIF

#### Activity:

Measure by its ability to induce IFN gamma secretion in KG-1 cells.

The ED50 for this effect is  $< 0.5 \mu g/mL$ .

☐ 5ug;20ug;100ug;500ug;

## **Protein 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- $\gamma$  (IFN- $\gamma$ ) 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.

Protein Accession: P70380.2

Gene ID: 16173

### **Expression Sequence:**

MNFGRLHCTTAVIRNINDQVLFVDKRQPVFEDMTDIDQSASEPQTRLIIYMYKDSEVRGLAVTLSVKDSKMSTLSCKNKIISFEEMDPPE NIDDIQSDLIFFQKRVPGHNKMEFESSLYEGHFLACQKEDDAFKLILKKKDENGDKSVMFTLTNLHQS with polyhistidine tag at the C-terminus.

Fusion tag: His-tag?at?the?C-terminus

**Species :** Mouse **Reactivity :** Mouse

**Expression Host:** Escherichia coli

Source : E. coli
Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

### **Endotoxin level:**

 $\!<\!0.1$  EU per 1  $\mu g$  of the protein by the LAL method.

Calculated Molecular Weight: 19.1 kDa

## Formulation:

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  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

**Shipping:** Blue Ice

### Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

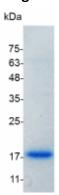
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category: Cytokines

**Application :** Cell culture, Elisa

# Image:



SDS- PAGE analysis of recombinant mouse IL-18