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Recombinant Mouse IL-18 Protein(Halo Tag)

Catalog Number: PDMM100241

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Mouse

Source HEK293 Cells-derived Mouse IL-18 protein Asn36-Ser192, with an C-terminal Halo

Calculated MW 59.1 kDa Observed MW 58 kDa P70380 Accession

Not validated for activity **Bio-activity**

Properties

> 90% as determined by reducing SDS-PAGE. **Purity**

Endotoxin < 1.0 EU/mg of the protein as determined by the LAL method

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -Storage

80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

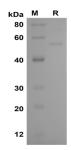
Shipping This product is provided as lyophilized powder which is shipped with ice packs. **Formulation**

Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5%

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Mouse IL-18 proteins,2µg/lane of Recombinant Mouse IL-18 proteins, was resolved with SDS-PAGE under reducing conditions, showing bands at 58 KD

Background

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Interleukin-18(IL-18, 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. This cytokine can induce the IFN-gamma production of T cells. The combination of IL-18 and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production of B cells. IL-18 binding protein(IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity. IL-18 is an IL-1-like cytokine that requires cleavage with caspase-1 to become active, was found to increase IgE production in a CD4+ T cell -, IL-4- and STAT6-dependent fashion. IL-18 and T cell receptor-mediated stimulation could induce naive CD4+ T cells to develop into IL-4-producing cells in vitro. Thus, caspase-1 and IL-18 may be critical in the regulation of IgE production in vivo, providing a potential therapeutic target for allergic disorders. IL-18 production in primary synovial cultures and purified synovial fibroblasts was, in turn, upregulated by TNF- α and IL-1 β , suggesting that monokine expression can feedback to promote Th1 cell development in the synovial membrane. Besides, synergistic combinations of IL-18, IL-12, and IL-15 may be of importance in sustaining both Th1 responses and monokine production in RA

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