

# Recombinant Human IL18 N terminal protein (Avi,His tag)



Catalog Number:PDEH100213

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

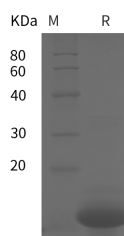
## Description

<b>Synonyms</b>	IGIF;IL-18;IL-1g;IL1F4;Interleukin 18
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Tyr 37-Lys 115
<b>Accession</b>	Q14116
<b>Calculated Molecular Weight</b>	8.6 kDa
<b>Observed molecular weight</b>	12 kDa
<b>Tag</b>	C-Avi-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

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 cells-; IL-4- and STAT6-dependent fashion. IL-18 and T cell receptor-mediated stimulation could induce naïve CD4+ T cells to develop into IL-4-producing cells in vitro. Thus; caspase-1 and IL-18 may be critical in regulation of IgE production in vivo; providing a potential therapeutic target for

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allergic disorders. IL-18 production in primary synovial cultures and purified synovial fibroblasts was; in turn; upregulated by TNF- $\alpha$  and IL-1 $\beta$ ; suggesting that monokine expression can feed back to promote Th1 cell development in 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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