

Datasheet for ABIN7317036

**IL-18 Protein (GST tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	IL-18 (IL18)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-18 protein is labelled with GST tag.

## Product Details

Purpose:	Recombinant Human Interleukin-18/IL-18 Protein (GST Tag)
Sequence:	Met 1-Asp 193
Characteristics:	A DNA sequence encoding the pro form of human IL18 (Q14116) (Met1-Asp193) was fused with the GST tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.

## Target Details

Target:	IL-18 (IL18)
Alternative Name:	Interleukin-18/IL-18 ( <a href="#">IL18 Products</a> )
Background:	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

## Target Details

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 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. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy

Synonym: IGIF;IL-18;IL-1g;IL1F4;Interleukin 18

Molecular Weight: 48.6 kDa

UniProt: [Q14116](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Activated T Cell Proliferation](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

## Application Details

Restrictions: For Research Use only

## Handling

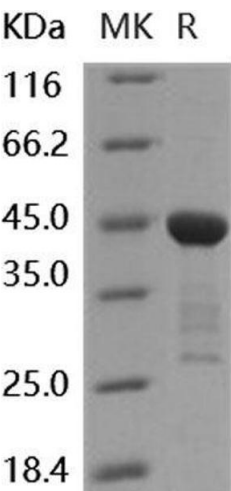
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.5

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: 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.



Western Blotting

Image 1.