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Datasheet for ABIN7278702  
**IL-18 Protein (AA 37-193) (His tag)**

### Overview

Quantity:	50 µg
Target:	IL-18 (IL18)
Protein Characteristics:	AA 37-193
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-18 protein is labelled with His tag.

### Product Details

Purpose:	IL-18 (human) (rec.) (His)
Specificity:	Human IL-18 (aa 37-193) is fused at the N-terminus to a His-tag.
Characteristics:	<p>Protein. Human IL-18 (aa 37-193) is fused at the N-terminus to a His-tag. Source: E. coli.</p> <p>Endotoxin content: &lt;1EU/µg protein (LAL test, Lonza). Lyophilized from 0.2µm-filtered solution in PBS. Purity: &gt;97 % (SDS-PAGE). Interleukin-18 (IL-18) is a costimulatory factor for production of interferon-gamma (IFN-gamma) in response to toxic shock and shares functional similarities with IL-12. IL-18 is synthesized as a precursor 24 kDa molecule without a signal peptide and must be cleaved to produce an active molecule. IL-1 converting enzyme (ICE, Caspase-1) cleaves pro-IL-18 at aspartic acid in the P1 position, producing the mature, bioactive peptide that is readily released from the cells. It is reported that IL-18 is produced from Kupffer cells, activated macrophages, keratinocytes, intestinal epithelial cells, osteoblasts, adrenal cortex cells and murine diencephalon. IFN-gamma is produced by activated T or NK cells and plays critical roles in the defense against microbial pathogens. IFN-gamma activates macrophages</p>

## Product Details

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and enhances NK activity and B cell maturation, proliferation and Ig secretion. IFN-gamma also induces expression of MHC class I and II antigens and inhibits osteoclast activation. IL-18 acts on T helper type-1 (Th1) T cells and in combination with IL-12 strongly induces them to produce IFN-gamma. Pleiotropic effects of IL-18 have also been reported, such as enhancement production of IFN-gamma and GM-CSF in peripheral blood mononuclear cells, production of Th1 cytokines, IL-2, GM-CSF, IFN-gamma in T cells and enhancement of Fas ligand expression by Th1 cells.

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Purity:	>97 % (SDS-PAGE)
Endotoxin Level:	<1EU/µg protein (LAL test, Lonza).

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## Target Details

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Target:	IL-18 (IL18)
Alternative Name:	IL-18 ( <a href="#">IL18 Products</a> )
Background:	<p>Alternate Names/Synonyms: Interleukin-18, Interferon-gamma-inducing Factor, IGIF, IL-1gamma, IL1F4</p> <p>Product Description: Interleukin-18 (IL-18) is a costimulatory factor for production of interferon-gamma (IFN-gamma) in response to toxic shock and shares functional similarities with IL-12. IL-18 is synthesized as a precursor 24 kDa molecule without a signal peptide and must be cleaved to produce an active molecule. IL-1 converting enzyme (ICE, Caspase-1) cleaves pro-IL-18 at aspartic acid in the P1 position, producing the mature, bioactive peptide that is readily released from the cells. It is reported that IL-18 is produced from Kupffer cells, activated macrophages, keratinocytes, intestinal epithelial cells, osteoblasts, adrenal cortex cells and murine diencephalon. IFN-gamma is produced by activated T or NK cells and plays critical roles in the defense against microbial pathogens. IFN-gamma activates macrophages and enhances NK activity and B cell maturation, proliferation and Ig secretion. IFN-gamma also induces expression of MHC class I and II antigens and inhibits osteoclast activation. IL-18 acts on T helper type-1 (Th1) T cells and in combination with IL-12 strongly induces them to produce IFN-gamma. Pleiotropic effects of IL-18 have also been reported, such as enhancement production of IFN-gamma and GM-CSF in peripheral blood mononuclear cells, production of Th1 cytokines, IL-2, GM-CSF, IFN-gamma in T cells and enhancement of Fas ligand expression by Th1 cells.</p>
NCBI Accession:	<a href="#">NP_001553</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Activated T Cell Proliferation</a> , <a href="#">Cancer Immune</a>

## Target Details

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[Checkpoints, Inflammasome](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Concentration: Lot specific

Buffer: Lyophilized from 0.2µm-filtered solution in PBS.

Handling Advice: Avoid freeze/thaw cycles.

Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.