

Datasheet for ABIN7566196 IL-18 Protein (AA 37-193)



Overview

Quantity:	10 µg
Target:	IL-18 (IL18)
Protein Characteristics:	AA 37-193
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Product Details	
Purpose:	IL-18 (human) (rec.)
Cross-Reactivity:	Human
Characteristics:	Human IL-18 (aa 37-193) is untagged.
Purity:	>98 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<0.06EU/µg purified protein (LAL test, Lonza).

## Target Details

Target:	IL-18 (IL18)
Alternative Name:	IL-18 (IL18 Products)
Background:	Interleukin-18, Interferon-gamma-inducing Factor, IGIF, IL-1gamma, IL1F4
	Interleukin-18 (IL-18) is a costimulatory factor for production of interferon-gamma (IFN-

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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 microbiral 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.		

Molecular Weight:	~18kDa
NCBI Accession:	NP_001553
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
Buffer:	Lyophilized from 0.2µm-filtered solution in 1X PBS.
Handling Advice:	Avoid freeze/thaw cycles.Centrifuge lyophilized vial before opening and reconstitution.
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.