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## Datasheet for ABIN2018072 IL-18 Protein (AA 37-194)

### Overview

Quantity:	50 µg
Target:	IL-18 (IL18)
Protein Characteristics:	AA 37-194
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Characteristics:	ED50 <2 µg/mL resulted in the secretion of 0.15 ng/mL h-IFN-gamma when tested using KG-1 cell line, corresponding to a specific activity of > 500 units/mg. AA 37-194, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGE analyses.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

### Target Details

Target:	IL-18 (IL18)
Alternative Name:	Interleukin-18 (IL-18) ( <a href="#">IL18 Products</a> )
Background:	Interleukin-18 (IL18, also known as interferon-gamma inducing factor or IGIF) is a cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. Its biological activity is pleiotropic and it has been shown to induce interferon-gamma production in KG-1

## Target Details

cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells. Recombinant rat Interleukin-18 (rrIL-18) produced in E. coli is a single non-glycosylated polypeptide chain containing 159 amino acids. A fully biologically active molecule, rrIL-18 has a molecular mass of 18.4 kDa analyzed by reducing SDS-PAGE.

Synonyms: NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Interferon-gamma-inducing factor, IGIF, IL-1g, IL1F4, IL-1 gamma

Molecular Weight: 18.4 kDa, observed by reducing SDS-PAGE.

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: Reconstituted in ddH<sub>2</sub>O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against 50 mM Tris, 50 mM NaCl, pH 8.0.

Storage: -80 °C

Storage Comment: Lyophilized recombinant rat Interleukin-18 (rrIL-18) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrIL-18 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months