

Rev03
Update: Dec,14,2021

DATASHEET

IL-18, Rat

Cat. No.: Z03025

Product Introduction

Species	Rat
Protein Construction	Expressed with an N-terminal Met. IL-18 (His37-Ser194) Accession # P97636-1
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 2.0 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 > 500.0 units/mg.
Expression System	E. coli
Apparent Molecular Weight	~18.4 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against 50 mM Tris, 50 mM NaCl, pH 8.0.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target 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 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.

Synonyms : IL18; IGIF; IL-18; IL-1g; IL1F4; interleukin 18

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.