

IL-18 Protein, Rat, Recombinant

General Information

Synonyms:	IGIF;IL18;IL1F4;IL-18;interleukin 18;IL-1g
Protein Construction:	His37-Ser194
Species:	Rat
Expression Host:	E. coli
Accession:	P97636-1
Molecular Weight:	~18.4 kDa (Reducing conditions)

QC Testing

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.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized after extensive dialysis against 50 mM Tris, 50 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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