

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-18, Rat

Catalog Number: BK0092-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

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. 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 and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

18.4 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE analyses.

Biological Activity:

ED50 <2µg/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.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against 50mM Tris, 50mM NaCl, pH8.0.

AA Sequence:

MHFGRLHCTTAVIRSINDQVLFVDKRN-
PPVFEDMPDIDRTANESQTRLIIYMYKDSEVR-
GLAVTSLVKDGRMSTLSCKNKIISFEEMNP-
PENIDDIKSDLIFFQKRVPGHNKMEFESS-
LYEGHFLACQKEDDAFKLVLRK-
DENGDKSVMFTLTNLHQS

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 µg/ml.

Storage:

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.

Usage:

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