

## Active Recombinant Rat Il18 Protein (159 aa)

Cat. No. II18-368I Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	159
<b>Description</b>	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.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	18.4 kDa, observed by reducing SDS-PAGE.

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<b>AA Sequence</b>	MHFGRLHCTTAVIRSINDQVLFVDKRNPPVFEDMPDIDRTANESQTRLIIYMYKDSEV RGLAVTLSVKDGRMSTLSCKNKIISFEEMNPPENIDDIKSDLIFFQKRVPGHNKMEFE SSLYEGHFLACQKEDDAFKLV LKRKDENGDKSVMFTLTNLHQS
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% by SDS-PAGE analyses.
<b>Storage</b>	Lyophilized recombinant ratInterleukin-18 (rrIL-18) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrIL-18 should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against 50mM Tris, 50mM NaCl, pH8.0.
<b>Reconstitution</b>	Reconstituted in ddH2O at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	IL18 interleukin 18 [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	IL18
<b>Synonyms</b>	IL18; interleukin 18; interleukin-18; IL-1 gamma; interleukin-1 gamma; IFN-gamma-inducing factor; interferon gamma-inducing factor; interferon-gamma-inducing factor; IL-18;
<b>Gene ID</b>	29197
<b>mRNA Refseq</b>	NM_019165
<b>Protein Refseq</b>	NP_062038

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