

Active Recombinant Rat IL18 Protein (159 aa)

Cat. No. IL18-368I **Lot. No.** (See product label)

SPECIFICATION

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

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AA Sequence	MHFGR _L HCTTAVIR _S INDQVL _F VDKRNPPVFEDMPDIDRTANESQTRLIIYMYKDSEV RGLAV _T LSVKDGRMSTLSCKN _K IISFEEMNPPENIDDIKSDLIFFQKRVP _G HNKMEFE SSLYEGHFLACQKEDDAFKLV _L KRKDENGDKSVMFTLTNLHQS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analyses.
Storage	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.
Storage Buffer	Lyophilized after extensive dialysis against 50mM Tris, 50mM NaCl, pH8.0.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	IL18 interleukin 18 [Rattus norvegicus]
Official Symbol	IL18
Synonyms	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;
Gene ID	29197
mRNA Refseq	NM_019165
Protein Refseq	NP_062038

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