

Recombinant Rat Interleukin 18

Cat. No. II18-522R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat IL-18 is a single, non-glycosylated polypeptide containing 158 amino acids and having a molecular weight of 18.3 kDa.
Species	Rat
Source	E.coli
Description	Interleukin-18 also known as IL18 is a protein which in humans is encoded by the IL18 gene. The protein encoded by this gene is a proinflammatory cytokine.
Biological Activity	The Rat IL-18 is fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of IFN- gamma by murine lymphnode cells, stimulated with sub optimal dose of ConA (0.75 µg/ml) is 12ng/ml.
Molecular Weight	18.3 kDa
Form	Lyophilized (from 1mg/ml in 0.4X PBS)
Appearance	Lyophilized protein
Endotoxin Level	<0.1 ng/g
Reconstitution	Reconstitute in water to a concentration of 0.1-1.0 µg/µl. Gentle pipetting to mix it well. The solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

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Purity	>95% by SDS-PAGE and HPLC analysis
Storage	Thelyophilized IL-18 is best-stored desiccated below 0°C. Reconstituted IL-18 should be stored at working aliquots at -20°C.
Pathways	African trypanosomiasis; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Hypertrophy Model; Influenza A; Legionellosis; Malaria; NOD-like receptor signaling pathway; Rheumatoid arthritis; Salmonella infection; Tuberculosis

GENE INFORMATION

Gene Name	Il18 interleukin 18 [Rattus norvegicus]
Official Symbol	Il18
Synonyms	Il18; interleukin 18; IL-18; IGIF; interleukin-18; IL-1 gamma; interleukin-1 gamma; IFN-gamma-inducing factor; interferon gamma-inducing factor; interleukin 18(interferon-gamma-inducing factor); MGC12320; IL1F4; iboctadekin; IL-1g; Interferon gamma-inducing factor; Iboctadekin; Interleukin-1 gamma
Gene ID	29197
mRNA Refseq	NM_019165
Protein Refseq	NP_062038
UniProt ID	P97636
Chromosome Location	8q23

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Function

cytokine activity; interleukin-18receptor binding; protein binding

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