Recombinant Rat Interleukin 15

Cat. No. Il15-231R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Rat
Source	Sf21 Cells
Description	Interleukin 15 (IL-15) is a novel cytokine that uses beta- and gamma-chain of IL-2R for signal transduction and is structurally similarity to IL-2. IL-15 is secreted by activated monocytes/macrophages following infection by virus. This cytokine induces cell proliferation of natural killer cells. This cytokine and interleukin 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other"s activity. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. IL-15 can recruit and activate T lymphocytes in the synovial membrane, thereby contributing to Rheumatoid arthritis pathogenesis.
Molecular Weight	The predicted molecular weight of Recombinant Rat IL-15 is Mr 70 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and HPLC.
Endotoxin	<1.0 EU/μg.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage And Stability	The lyophilized protein should be stored desiccated at -20°C. The reconstituted protein can be stored for at least one week at 4°C. For long-term storage of the reconstituted protein, aliquot into working volumes and store at -20°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	Il15 interleukin 15 [Rattus norvegicus]
Synonyms	Il15; interleukin 15
Gene ID	25670
mRNA Refseq	NM_013129
Protein Refseq	NP_037261
UniProt ID	P97604
Chromosome Location	19q11
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	cytokine activity; molecular_function; protein binding

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