Active Recombinant Mouse Il2 Protein (Ala21-Gln169), C-His tagged, Animal-free, Carrier-free

Cat. No. Il2-57M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il2 Protein (Ala21-Gln169) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Ala21-Gln169
Description	Interleukin-2 (IL-2) is a 18 kDa four bundle, immuno-modulatory cytokine which is expressed predominately by antigen-simulated CD4+ T cells, CD8+ T cells, natural killer (NK) cells, and dendritic cells (DC). IL-2 plays a fundamental role in promoting NK cell proliferation, cytotoxicity, and B cells differentiation. IL-2 modulate T cell differentiation programs, promoting naïve CD4+ T cell differentiation into T helper-1 (Th1) and T helper-2 (Th2) cells.
Form	Lyophilized
Bio-activity	Measure by its ability to induce CTLL-2 cells proliferation. The ED50 for this effect is < 0.3 ng/mL. The specific activity of recombinant mouse IL-2 is approximately >3 × 10^6 IU/mg.
Molecular Mass	The protein has a calculated MW of 18.2 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

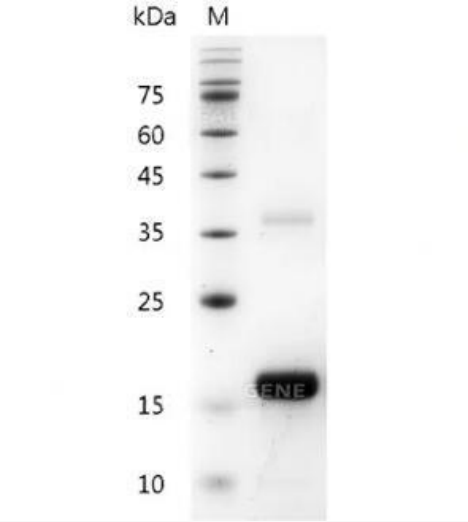
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	Il2 interleukin 2 [Mus musculus (house mouse)]
Official Symbol	Il2
Synonyms	IL2; interleukin 2; interleukin-2; TCGF; T-cell growth factor; Il-2;
Gene ID	16183
mRNA Refseq	NM_008366
Protein Refseq	NP_032392

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UniProt ID	P04351
SDS-PAGE analysis of recombinant mouse IL-2.	

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