

Active Recombinant Mouse Il21 Protein (His18-Ser146), C-His tagged, Animal-free, Carrier-free

Cat. No. II21-265M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il21 Protein (His18-Ser146) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	His18-Ser146
Description	Interleukin-21 (IL-21) belongs to the IL-15/IL-21 family, which exerts pleiotropic immune regulations. IL-21 produced primarily by natural killer T (NKT) cells, T follicular helper (TFH) cells and TH17 cells. As a pleiotropic cytokine, IL-21 has been shown to regulate both innate and humoral immunity. It has potent inhibitory activity towards the activation and maturation of granulocyte-macrophage colony-stimulating factor (GM-CSF)-induced dendritic cells (DCs). In B cells, IL-21 has a major role in the development of immunoglobulin responses. In T cells, it is required to facilitate the functional differentiation of several CD4+ T cell subsets. In addition, the ability of IL-21 to enhance the cytotoxic activity of both CD8+ T cells and NK cells makes it as a potential antitumor agent.
Form	Lyophilized
Bio-activity	Measure by its ability to enhance IFN gamma secretion in NK-92 cells. The ED50 for this effect is < 6 ng/mL. The specific activity of recombinant mouse IL-21 is > 1.6 x

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	10 ⁵ IU/mg.
Molecular Mass	The protein has a calculated MW of 15.9 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>95% 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 H ₂ O 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	Il21 interleukin 21 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Il21
Synonyms	IL21; interleukin 21; interleukin-21; IL-21;

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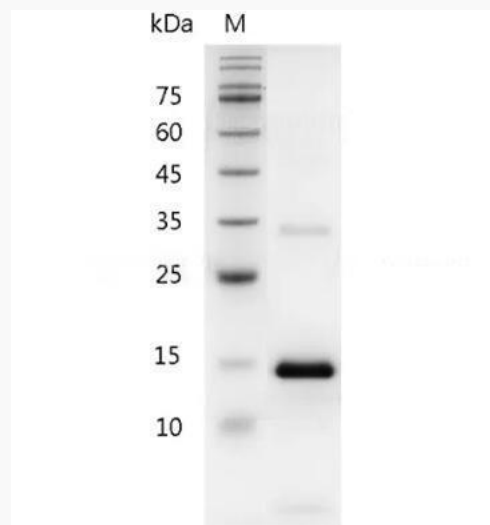
Gene ID 60505

mRNA Refseq NM_021782

Protein Refseq NP_068554

UniProt ID Q9ES17

**SDS-PAGE analysis
of recombinant
mouse IL-21.**



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