

Active Recombinant Mouse IL21 Protein, His-Tagged

Cat. No. IL21-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IL21 Protein, His-tagged was expressed in E. coli cell
Species	Mouse
Source	E.coli
Description	Interleukin-21 (IL21) belongs to the IL-15/IL-21 family. It is a cytokine with immunoregulatory activity. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Interleukin-21 is a cytokine that has potent regulatory effects on cells of the immune system, including natural killer (NK) cells and cytotoxic T cells that can destroy virally infected or cancerous cells. This cytokine induces cell division/proliferation in its target cells.
Form	Lyophilized powder
AA Sequence	MHKSSPQGPDRLLIRLRHLIDIVEQLKIYENDLDPELLSAPQDVKGHCHEAAAFACFQK AKLKPSNPGNNKTFIIDLVAQLRRRLPARRGGKKQ KHIAKCPCDSYEK RTPKEFLERLKWLLQKMIHQHLS with polyhistidine tag at the C-terminus
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.

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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 10 ⁵ IU/mg.
Purity	>95% as determined by SDS-PAGE. Ni-NTA chromatography
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Notes	Please use within one month after protein reconstitution.

GENE INFORMATION

Gene Name	IL21 interleukin 21 [<i>Mus musculus</i> (house mouse)]
Official Symbol	IL21
Synonyms	IL-21
Gene ID	60505
mRNA Refseq	NM_001291041.1
Protein Refseq	NP_001277970.1

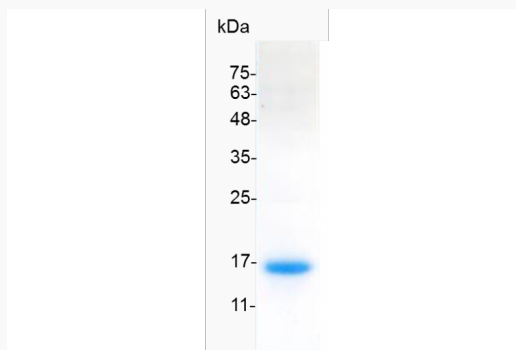
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UniProt ID

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