

# Active Recombinant Mouse IL21 Protein, His-Tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse IL21 Protein, His-tagged was expressed in E. coli cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MHKSSPQGPDRLLIRLRHLIDIVEQLKIYENDLDPELLSAPQDVKGHCHEAAAFACFQK<br>AKLKPSNPGNNKTFIIDLVAQLRRRLPARRGGKKQ<br>KHIAKCPCDSYEK RTPKEFLERLKWLLQKMIHQHLS with polyhistidine tag at the C-terminus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | <0.1 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bio-activity</b>   | 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 <sup>5</sup> IU/mg.             |
| <b>Purity</b>         | >95% as determined by SDS-PAGE. Ni-NTA chromatography                                                                                                                                                      |
| <b>Storage Buffer</b> | The protein was lyophilized from a solution containing 1X PBS, pH 7.4.                                                                                                                                     |
| <b>Reconstitution</b> | 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. |
| <b>Storage</b>        | Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.                                                                                   |
| <b>Notes</b>          | Please use within one month after protein reconstitution.                                                                                                                                                  |

## GENE INFORMATION

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

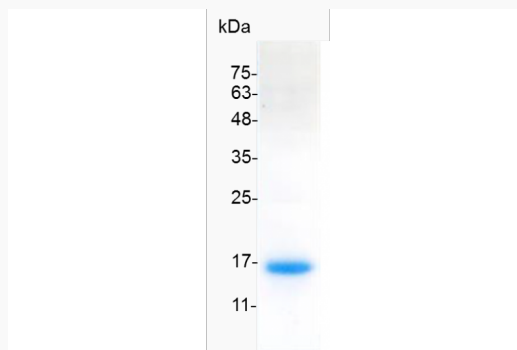
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UniProt ID

A0A8C6GYE7

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