

Recombinant Mouse Interleukin-21 (Mouse IL-21)

Product Information

| Product Name | Cat# | Size | Price (¥) |
|--|-----------|--------|-----------|
| Recombinant Mouse Interleukin-21 (Mouse IL-21) | 90154ES10 | 10 µg | 1855.00 |
| | 90154ES60 | 100 µg | 13615.00 |
| | 90154ES76 | 500 µg | 35395.00 |

Product Description

Interleukin-21 (IL-21) is an approximately 14 kDa four-helix-bundle cytokine in the family of cytokines that utilize the common gamma chain (gamma c) as a receptor subunit. Mature mouse IL-21 shares 66%, 59%, 58%, and 88% aa sequence identity with mature canine, human, rabbit, and rat IL-21, respectively. It can induce target cells division or proliferation. IL-21 elicits its effect through binding to IL-21R. IL-21 is a type I cytokine whose receptor is expressed on T, B, and NK cells. Within the B cell lineage, IL-21 regulates IgG1 production and cooperates with IL-4 for the production of multiple Ab classes in vivo. IL-21 has a significant influence on the regulation of B cell function in vivo and cooperates with IL-4. Additionally, IL-21 promoted tumor-specific CTL activity and enhanced memory responses to tumor rechallenge.

Product Properties

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|----------------------------|---|
| Synonyms | CVID11, IL21, IL-21, interleukin 21, Za11 |
| Accession | Q9ES17 |
| GeneID | 60505 |
| Source | E.coli-derived mouse IL-21 protein, His18-Ser146 |
| Molecular Weight | Approximately 15.0 kDa |
| AA Sequence | HKSSPQGPDR LLIRLRHLID IVEQLKIYEN DLDPELLSAP QDVKGHCEHA AFACFQKAKL KPSNPGNKKT FIIDLVAQLR RRLPARRGGK KQKHIACPS CDSYEK RTPK EFLERLKWLL QKMIHQHLS |
| Tag | None |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Purity | > 98% by SDS-PAGE and HPLC analyses. |
| Biological Activity | The ED ₅₀ as determined by a cell proliferation assay using human N1186 T cells is less than 25 ng/mL, corresponding to a specific activity of > 4.0 × 10 ⁴ IU/mg. Fully biologically active when compared to standard. |
| Endotoxin | < 0.1 EU per 1µg of the protein by the LAL method. |
| Formulation | Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. |
| Reconstitution | Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions. |

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.