

## Recombinant Mouse Interleukin-21/IL-21 Protein (His Tag)

**Catalog Number:** PKSM041083

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

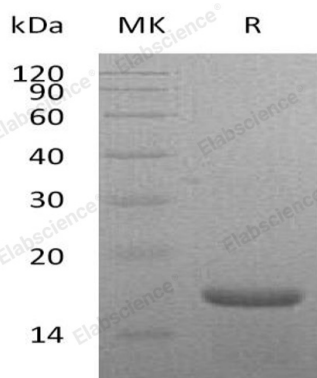
### Description

<b>Species</b>	Mouse
<b>Source</b>	E.coli-derived Mouse Interleukin-21/IL-21 protein Pro25-Ser146, with an N-terminal His
<b>Calculated MW</b>	16.5 kDa
<b>Observed MW</b>	16 kDa
<b>Accession</b>	Q9ES17
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM Histidine-HCl, 6% Sucrose, 2% Glycine, 50mM NaCl, 0.05% Tween 80, pH 6.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

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Interleukin-21(IL-21) is an approximately 14 kDa cytokine which belongs to the IL-15/IL-21 family. Mature mouse IL-21 shares 66%,59%, 58%, and 88% aa sequence identity with mature canine, human, rabbit, and rat IL-21, respectively. IL-21 is produced by activated T follicular helper cells (Tfh), Th17 cells, and NKT cells. It exerts its biological effects through a heterodimeric receptor complex (IL-21 specific IL-21 R). IL-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. It is required for the migration of dendritic cells to draining lymph nodes .It co-stimulates the activation, proliferation, and survival of CD8+ T cells and NKT cells and promotes Th17 cell polarization. It blocks the generation of regulatory T cells and their suppressive effects on CD4+ T cells.