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Recombinant Rat IL-21 Protein(Sumo Tag)

Catalog Number: PDER100126

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

Description

Species Rat

Source E.coli-derived Rat IL-21 protein His 18-Ser146, with an N-terminal Sumo

Calculated MW 27.0 kDa
Observed MW 35 kDa
Accession A3QPB9

Bio-activity Not validated for activity

Properties

Purity > 90% as determined by reducing SDS-PAGE.

Endotoxin < 10 EU/mg of the protein as determined by the LAL method

Storage 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.

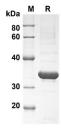
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Rat IL-21 proteins , $2\mu g/lane$ of Recombinant Rat IL-21 proteins was resolved with SDS-PAGE under reducing conditions , showing bands at 35 KD

Background

Elabscience®

Elabscience Biotechnology Co., Ltd.

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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. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes , macrophages , dendritic cells) and adaptive (T-and B-cells) immune systems. IL21 is expressed in activated CD4-positive T-cells but not in CD8-positive T-cells , B-cells , or monocytes. It may promote the transition between innate and adaptive immunity. IL-21 has been tried as a therapy for alleviating allergic responses. It can significantly decrease pro-inflammatory cytokines produced by T cells in addition to decreasing IgE levels in a mouse model for rhinitis (nasal passage inflammation).