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# Recombinant Mouse IL7R/IL-7R/CD127 Protein (His Tag)

Catalog Number: PDEM100306

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

### Description

**Species** Mouse

Source E.coli-derived Mouse IL7R protein Glu21-Asp239, with an N-terminal His

**Calculated MW** 24.0 kDa Observed MW 32 kDa P16872 Accession

Not validated for activity **Bio-activity** 

### **Properties**

> 95% as determined by reducing SDS-PAGE. **Purity** 

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

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -Storage

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.

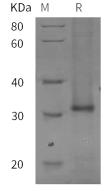
Shipping This product is provided as lyophilized powder which is shipped with ice packs. **Formulation** 

Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5%

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 Mouse IL7R/IL-7R/CD127 proteins, 2 μg/lane of Recombinant Mouse IL7R/IL-7R/CD127 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 32 kDa.

# **Background**

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# Elabscience®

#### Elabscience Bionovation Inc.

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Interleukin 7 Receptor alpha (IL-7RA), also known as CD127, is a 75 kDa hematopoietin receptor superfamily member that plays an important role in lymphocyte differentiation, proliferation, and survival. IL-7RA signaling is essential for T-cell development and regulation of naive and memory T-cell homeostasis. Studies from both pathogenic and controlled HIV infection indicate that the containment of immune activation and preservation of CD127 expression are critical to the stability of CD4(+) T cells in infection. A better understanding of the factors regulating CD127 expression in HIV disease, particularly on T(CM) cells, might unveil new approaches exploiting the IL-7/IL-7R receptor pathway to restore T cell homeostasis and promote immune reconstitution in HIV infection. Factors relevant to HIV infection that could potentially decrease CD127 expression on human CD8(+) T cells. CD127 down-regulation may be an important contributor to HIV-associated T-cell dysfunction. In addition to IL-7, IL-7RA also associates with TSLPR to form the functional receptor for thymic stromal lymphopoietin (TSLP) which indirectly regulates T cell development by modulating dendritic cell activation. Mutations in the human IL-7RA gene cause a type of severe combined immunodeficiency in which the major deficiencies are in T cell development, whereas B and NK cells are relatively normal in number. Soluble CD127 (sCD127) appears to play an important role in the immunopathogenesis of several chronic infections, multiple sclerosis, and various cancers.

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