



Recombinant Protein Technical Manual  
Recombinant Rat IL17RA Protein (Fc Tag)(Active)  
RPES0659

### Product Data:

**Product SKU:** RPES0659

**Size:** 100µg

**Species:** Rat

**Expression host:** HEK293 Cells

**Uniprot:** NP\_001101353.2

### Protein Information:

**Molecular Mass:** 59.7 kDa

**AP Molecular Mass:** 6802 kDa

**Tag:** C-Fc

**Bio-activity:** Measured by its binding ability in a functional ELISA. Immobilized mouse IL17A at 10 µg/ml (100 µl/well) can bind Rat IL17RA, The EC50 of RatIL17RA is 12.0-29.0 ng/ml.

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method

**Storage:** 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.

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

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** IL17RA

## Immunogen Information:

**Sequence:** Met1-Pro320

## Background:

Interleukin7 receptor (IL7R), also known as Interleukin7 receptor A (IL7RA) and CD217 antigen (CD217), is a cytokine receptor which binds interleukin 17. IL7R/IL7RA (CD217) is a proinflammatory cytokine secreted by activated T-lymphocytes. It is a potent inducer of the maturation of CD34-positive hematopoietic precursors into neutrophils. IL7R/IL7RA (CD217) is a ubiquitous type I membrane glycoprotein that binds with low affinity to interleukin 17A. Interleukin 17A and its receptor IL7RA play a pathogenic role in many inflammatory and autoimmune diseases such as rheumatoid arthritis. Like other cytokine receptors, this receptor likely has a multimeric structure. Defects in IL7R/IL7RA (CD217) are the cause of familial candidiasis type 5 (CANDF5). CANDF5 is a rare disorder with altered immune responses and impaired clearance of fungal infections, selective against *Candida*. It is characterized by persistent and/or recurrent infections of the skin, nails and mucous membranes caused by organisms of the genus *Candida*, mainly *Candida albicans*.