



Recombinant Protein Technical Manual

**Recombinant Mouse Interleukin7/IL7 Protein
(Active)**
RPES4576

Product Data:

Product SKU: RPES4576

Size: 20µg

Species: Mouse

Expression host: E. coli

Uniprot: Q62386

Protein Information:

Molecular Mass: 15.5 kDa

AP Molecular Mass: 16 kDa

Tag:

Bio-activity:

1. Measured by its binding ability in a functional ELISA.
2. Immobilized recombinant mouse IL17a at 10 µg/mL (100 µl/well) can bind human IL17Ra-Fc2h with a linear range of 16-500 ng/mL.

Purity: > 97 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

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: Ctlα-8; Ctlα8; IL7; IL7A; IL17

Immunogen Information:

Sequence: Thr 22-Ala158

Background:

IL17, also known as IL17a, is a cytokine belongs to the IL7 family. 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. The IL7 family of cytokines includes six members, IL7/IL7A, IL7B, IL7C, IL7D, IL7E/IL-25, and IL7F, which are produced by multiple cell types. IL7 regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL7 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.