



Recombinant Protein Technical Manual

Recombinant Human IL17RD Protein (His Tag)

RPES2515

Product Data:

Product SKU: RPES2515

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_060033.3

Protein Information:

Molecular Mass: 33.5 kDa

AP Molecular Mass: 55-60 kDa

Tag: C-His

Bio-activity:

Purity: > 97 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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:

Synonyms: HH18;IL7RD;IL17RLM;SEF

Immunogen Information:

Sequence: Met 1-Arg 299

Background:

Interleukin7 receptor D (IL7D) also known as Interleukin7 receptor-like protein, is a member of interleukine7 receptor family. IL7RD functions as a feedback inhibitor of fibroblast growth factor mediated Ras-MAPK signaling and ERK activation. It may inhibit FGF-induced FGFR1 tyrosine phosphorylation, regulate the nuclear ERK signaling pathway by spatially blocking nuclear translocation of activated ERK. By similarity, and mediate JNK activation and may be involved in apoptosis. IL7RD is found expressed in the neopallial cortex, rhombic lip and dorsal regions of the myelencephalon and in the frontal nasal process. IL7RD is also expressed in the commissural plate and septal area of the forebrain and in the hippocampus, lens and optic cup. In the oral region, IL7RD is expressed in the tongue and in the mesenchyme of the first branchial arch. It is also expressed in the developing inner ear. IL7RD interacts with both IL7R-Myc and IL7RB-Myc. Both the intracellular and extracellular domains of IL7RD interact with IL7R. IL7R forms a heteromeric complex with IL7RD. Experiment results indicate that IL7RD is able to affect IL7R localization, suggesting that these two molecules are colocalized and associate with each other within cells. The fact that IL7RD Delta ICD is unable to mediate IL7 signaling but functions as a dominant-negative form indicates that the intracellular domain of IL7RD is pivotal. In addition, IL7RD interacts with the IL7R downstream molecule TRAF6. It has been proposed that the IL7RD intracellular domain interacts with IL7R and TRAF6 to deliver the downstream signal.