



# Recombinant Protein Technical Manual

## Recombinant Human Interleukin7F/IL7F Protein (His Tag)(Active)

RPES2082

### Product Data:

**Product SKU:** RPES2082

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q96PD4

### Protein Information:

**Molecular Mass:** 16.0 kDa

**AP Molecular Mass:** 19 kDa

**Tag:** C-6His

**Bio-activity:** Measured by its ability to induce IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 21.87 ng/ml.

**Purity:** > 95 % 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 a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

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

**Application:**

**Synonyms:** Interleukin7F; IL7F; Cytokine ML; Interleukin-24; IL-24; IL17F; IL24

## Immunogen Information:

**Sequence:** Arg31-Gln163

## Background:

Interleukin7F (IL7F) exists in a disulfide-linked heterodimer that belongs to the IL7 family. IL7F is expressed in activated, but not resting, CD4+ T-cells and activated monocytes. IL7F has been shown to stimulate the production of several other cytokines, including IL-6, IL-8, and granulocyte colony-stimulating factor. IL7F can regulate cartilage matrix turnover and stimulates PBMC and T-cell proliferation. IL7F is also found to inhibit the angiogenesis of endothelial cells and induce endothelial cells to produce IL2, TGFB1/TGFB, and monocyte chemoattractant protein. Defects in IL7F are the cause of familial candidiasis type 6 (CANDF6).