



# Recombinant Protein Technical Manual

## Recombinant Mouse IL13RA1 Protein (Fc Tag)

RPES1416

### Product Data:

**Product SKU:** RPES1416

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** O09030

### Protein Information:

**Molecular Mass:** 63 kDa

**AP Molecular Mass:** 8020 kDa

**Tag:** C-Fc

**Bio-activity:**

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

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

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 PBS, pH 7.4.

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

**Application:**

**Synonyms:** Interleukin3 receptor subunit alpha;IL3RA1;Interleukin3-binding protein;Novel cytokine receptor 4;NR4;CD213a1; IL3 R alpha 1

## Immunogen Information:

**Sequence:** Ala25-Thr340

## Background:

Interleukin3 receptor subunit alpha(IL3RA1), also known as NR4, belongs to the hemopoietin receptor family. Interleukin3 receptor is a complex of IL4R, IL13RA1, and possibly other components. It interacts with TRAF3IP1 and binds with low affinity to interleukin3(IL3). IL3RA1, together with IL4RA, can form a functional receptor for IL13. It also serves as an alternate accessory protein to the common cytokine receptor gamma chain for interleukin-4 (IL4) signaling, but cannot replace the function of IL2RG in allowing enhanced interleukin-2 (IL2) binding activity. The WSXWS motif in domains appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.