



# Recombinant Protein Technical Manual

## Recombinant Human GFRRA2 Protein ((Fc & His Tag)

RPES4824

### Product Data:

**Product SKU:** RPES4824

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** O00451

### Protein Information:

**Molecular Mass:** 74.7 kDa

**AP Molecular Mass:** 120 kDa

**Tag:** C-Fc-6His

**Bio-activity:**

**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 Tris,150mM NaCl,pH8.0.

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

**Application:**

**Synonyms:** GDNF Family Receptor Alpha-2; GDNF Receptor Alpha-2; GDNFR-Alpha-2; GFR-Alpha-2; GDNF Receptor Beta; GDNFR-Beta; Neurturin Receptor Alpha; NRTNR-Alpha; NTNR-Alpha; RET Ligand 2; TGF-Beta-Related Neurotrophic Factor Receptor 2; GFRA2; GDNFRB; RETL2; TRNR2

## Immunogen Information:

**Sequence:** Ser22-Ser441

## Background:

GDNF family receptor alpha-2 is a glycosylphosphatidylinositol (GPI)-linked cell surface receptor. It is part of the GDNF receptor family. Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. GFRA2 mediates the NTN-induced autophosphorylation and activation of the RET receptor. It also able to mediate GDNF signaling through the RET tyrosine kinase receptor. It acts preferentially as a receptor for NTN compared to its other family member, GDNF family receptor alpha 1.