Recombinant Protein Technical Manual

Recombinant Human GFRA1/GDNFRA Protein (Fc Tag)

RPES4804

Product Data:

Product SKU: RPES4804

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P56159

Protein Information:

Molecular Mass: 72.3 kDa

AP Molecular Mass: 85 kDa

Tag: C-Fc

Bio-activity:

Purity: > 90 % 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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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: GDNF Family Receptor Alpha; GDNF Receptor Alpha; GDNFR-Alpha; GFR-Alpha; RET Ligand 1; TGF-Beta-Related Neurotrophic Factor Receptor 1; GFRA1; GDNFRA; RETL1; TRNR1

Immunogen Information:

Sequence: Asp25-Lys429

Background:

Glial Cell Line-Derived Neurotrophic Factor Family Receptor α (GDNFRα1) is a glycosylphosphatidylinositol (GPI) linked cell surface protein belonging to GDNF-family receptor α subtype which consists of at least four members. GFRα1and GFRα2 are the cognate co-receptor for the neurotrophic factor neurturin mediating the NRTN-induced autophosphorylation and activation of the RET tyrosine kinase receptor. Soluble GFRαs released enzymatically from the cell surface by phosphatidylinositol phospholipase C, as well as recombinantly produced soluble GFRα1, can also bind with high affinity to GDNF and trigger the activation of Ret tyrosine kinase. Human GFRα1 shares 93% amino acid identity with mouse GFRα1. The expression of the various GFRαs are differentially regulated in the central and peripheral nervous system, suggesting complementary roles for the GFRαs in mediating the activities of the GDNF family of neurotrophic factors.