

**Recombinant Human GFR alpha-2 Protein (His Tag)**

**Cat.NO.: TP08088**

3th Edition

**Synonyms:**GDNFRB;NRTNR-ALPHA;NTNRA;RETL2;TRNR2

**Description:**GFRA2 is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol(GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. GFRA2 is a potent survival factor for central and peripheral neurons, and is essential for the development of kidneys and the enteric nervous system. Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are its binding ligand which are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. GDNF promotes the formation of a physical complex between GFRA/GDNFRa and the orphan tyrosin kinase receptor Ret, thereby inducing its tyrosine phosphorylation. The RET is a receptor tyrosine kinase representing the signal-transducing molecule of a multisubunit surface receptor complex for the GDNF, in which GFRA/GDNFRa acts as the ligand-binding component. Experiments have improved that GFRA2 genetic variants and age may play a role in Tardive dyskinesia (TD) susceptibility, but further work is required to confirm these findings.

**Form:**PBS

**Molecular Weight:**48.2 kDa

**Sequences:**Met 1-Ser 441

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.