

## Product datasheet for **TP727968**

### Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human GDNF Family Receptor $\hat{1}\pm$ -1/GFRA1 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Asp25-Lys429
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Glial Cell line-derived Neurotrophic Factor Receptor alpha 1 is produced by our Mammalian expression system and the target gene encoding Asp25-Lys429 is expressed with a Fc tag at the C-terminus.
Storage:	Lyophilized protein should be stored at $< -20^{\circ}\text{C}$ , though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.
Stability:	12 months from date of despatch
Synonyms:	GDNF Family Receptor Alpha-1; GDNF Receptor Alpha-1; GDNFR-Alpha-1; GFR-Alpha-1; RET Ligand 1; TGF-Beta-Related Neurotrophic Factor Receptor 1; GFRA1; GDNFRA; RETL1; TRNR1
Summary:	Glial Cell Line-Derived Neurotrophic Factor Family Receptor $\hat{1}\pm$ -1 (GDNFR $\hat{1}\pm$ 1) is a glycosylphosphatidylinositol (GPI) linked cell surface protein belonging to GDNF-family receptor $\hat{1}\pm$ subtype which consists of at least four members. GFR $\hat{1}\pm$ 1 and GFR $\hat{1}\pm$ 2 are the cognate co-receptor for the neurotrophic factor neurturin mediating the NRTN-induced autophosphorylation and activation of the RET tyrosine kinase receptor. Soluble GFR $\hat{1}\pm$ s released enzymatically from the cell surface by phosphatidylinositol phospholipase C, as well as recombinantly produced soluble GFR $\hat{1}\pm$ 1, can also bind with high affinity to GDNF and trigger the activation of Ret tyrosine kinase. Human GFR $\hat{1}\pm$ 1 shares 93% amino acid identity with mouse GFR $\hat{1}\pm$ 1. The expression of the various GFR $\hat{1}\pm$ s are differentially regulated in the central and peripheral nervous system, suggesting complementary roles for the GFR $\hat{1}\pm$ s in mediating the activities of the GDNF family of neurotrophic factors.



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