

# Recombinant Human GFRA1/GDNFRA Protein (Fc Tag)



Catalog Number:PKSH032481

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

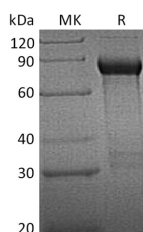
## Description

<b>Synonyms</b>	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
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Asp25-Lys429
<b>Accession</b>	P56159-2
<b>Calculated Molecular Weight</b>	72.4 kDa
<b>Observed molecular weight</b>	85 kDa
<b>Tag</b>	C-Fc

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, 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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

Glial Cell Line-Derived Neurotrophic Factor Family Receptor  $\alpha$ -1 (GDNFR $\alpha$ 1) is a glycosylphosphatidylinositol (GPI) linked cell surface protein belonging to GDNF-family receptor  $\alpha$  subtype which consists of at least four members. GFR $\alpha$ 1 and GFR $\alpha$ 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 $\alpha$ s released enzymatically from the cell surface by phosphatidylinositol phospholipase C, as well as recombinantly produced soluble GFR $\alpha$ 1, can also bind with high affinity to GDNF and trigger the activation of Ret tyrosine kinase. Human GFR $\alpha$ 1 shares 93% amino acid

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identity with mouse GFR $\alpha$ 1. The expression of the various GFR $\alpha$ s are differentially regulated in the central and peripheral nervous system, suggesting complementary roles for the GFR $\alpha$ s in mediating the activities of the GDNF family of neurotrophic factors.

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