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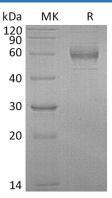
Recombinant Human GFRA1/GDNFRA Protein (aa 25-429, His Tag)

Catalog Number: PKSH033670

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

Description	
Species	Human
Source	HEK293 Cells-derived Human GFRA 1; GDNFRA protein Asp25-Lys429, with an C-
	terminal His
Calculated MW	46.3 kDa
Observed MW	60 kDa
Accession	P56159-2
Bio-activity	Not validated for activity
Properties	
Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	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 $< -20^{\circ}$ 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 PB, 150mM NaCl, pH 7.4.
	Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants
	before lyophilization.
	Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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Glial Cell Line-Derived Neurotrophic Factor Family Receptor α -1 (GDNFR α 1) is a glycosylphosphatidylinositol (GPI) linked cell surface protein belonging to GDNF-family receptor α subtype which consists of at least four members. GFR α land GFR α 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 α s released enzymatically from the cell surface by phosphatidylinositol phospholipase C, as well as recombinantly produced soluble GFR α 1, can also bind with high affinity to GDNF and trigger the activation of Ret tyrosine kinase. Human GFR α 1 shares 93% amino acid identity with mouse GFR α 1. The expression of the various GFR α s are differentially regulated in the central and peripheral nervous system, suggesting complementary roles for the GFR α s in mediating the activities of the GDNF family of neurotrophic factors.