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

Catalog No. PKSH033670

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

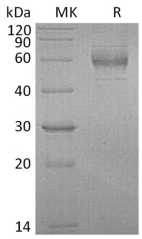
Description

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
Species	Human
Expression Host	HEK293 Cells
Sequence	Asp25-Lys429
Accession	P56159-2
Calculated Molecular Weight	46.3 kDa
Observed molecular weight	60 kDa
Tag	C-His
Bioactivity	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℃. 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 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

Glial Cell Line-Derived Neurotrophic Factor Family Receptor α-1 (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.

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