

RP00199

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# Recombinant Human GDNFR-alpha-2/GFRA2 Protein

Catalog No.: RP00199

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Human	2675	O00451

### Tags

C-His

### Synonyms

GFRA2;GDNFRB;NRTNR-  
ALPHA;NTNRA;RETL2;TRNR2

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS- PAGE.

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. The protein encoded by this gene 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. This encoded protein acts preferentially as a receptor for NTN compared to its other family member, GDNF family receptor alpha 1. This gene is a candidate gene for RET-associated diseases.

## Basic Information

### Description

Recombinant Human GDNFR-alpha-2/GFRA2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ser22-Ser441) of human GFRA2/GFRα2/GDNFRB (Accession #NP\_001486.4) fused with a 6×His tag at the C-terminus.

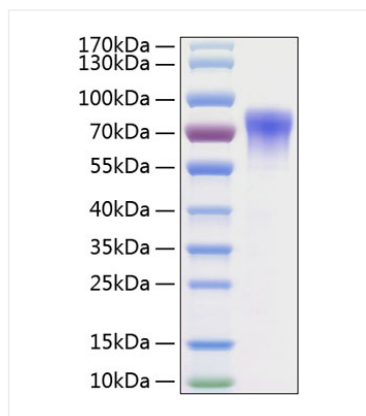
### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant Human Neurturin at 5 μg/mL (100 μL/well) can bind recombinant Human GFRA2, the EC<sub>50</sub> of Human GFRA2 is 1.82 μg/mL.

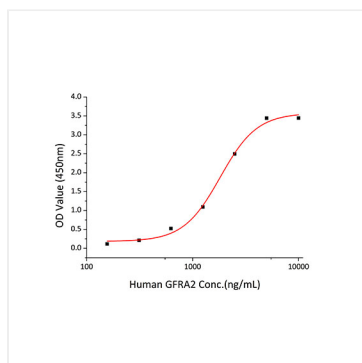
### Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data



Recombinant Human GFRA2/GFR $\alpha$ 2/GDNFRB Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 70-75 kDa.



Immobilized recombinant Human Neurturin at 5 $\mu$ g/mL (100 $\mu$ L/well) can bind recombinant Human GFRA2, the  $EC_{50}$  of Human GFRA2 is 1.82 $\mu$ g/mL.