

# Recombinant human GDNFR alpha-3/GFRA3 protein

Catalog Number: ATGP3585

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

32-374aa

### UniProt No.

O60609

### NCBI Accession No.

NP\_001487

### Alternative Names

GDNF family receptor alpha-3, GFRA3, GDNFR3, GFRalpha3

## PRODUCT SPECIFICATION

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### Molecular Weight

65.5 kDa (585aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 85% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

hIgG-His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

GFRA3, also known as GDNF family receptor alpha-3, is a plasma membrane glycoprotein. This protein is one of the four GDNF receptors, all of which are glycosylphosphoinositol (GPI) -linked, contain three conserved cysteine repeats, and involved survival of neurons. Also, it promotes the formation of a physical complex between GFRA/GDNFRa and the orphan tyrosin kinase receptor Ret, thereby inducing its tyrosine phosphorylation.

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Recombinant human GFRA3, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

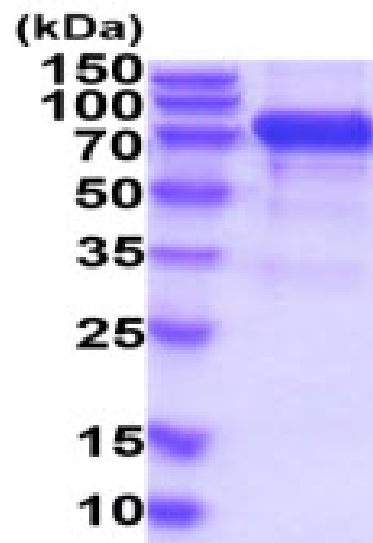
ADPDPLPTES RLMNSCLQAR RKCQADPTCS AAYHHLDST SSISTPLPSE EPSVPADCLE AAQQLRNSSL IGCMCHRRMK  
NQVACLDIYW TVHRARSLGN YELDVSPYED TVTSKPWKMN LSKLNMLKPD SDLCLKFAML CTLNDKCDRL RKAYGEACSG  
PHCQRHVCLR QLLTFFEKAA EPHAQGLLLC PCAPNDRGCG ERRRNTIAPN CALPPVAPNC LELRRLCFSD PLCRSRLVDF  
QTHCHPMDIL GTCATEQSRC LRAYLGLIGT AMTPNFVSNV NTSVALSCTC RGSGLNQEEC EMLEGFFSHN PCLTEAIAAK  
MRFHSQLFSQ DWPHTFAVM AHQENLEPK SCDKTHTCP CPAPPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH  
EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV  
YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTPPVV DSDGSFFLYS KLTVDKSRWQ QGNVFCSVM  
HEALHNHYTQ KSLSLSPGKH HHHHH

## General References

Wu ZS., et al, (2013) BMC Cancer 13:34.  
Baloh RH., et al, (1998) Neuron 21:1291-1302.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)