

Recombinant rat GDNFR alpha-1/GFRA1 protein

Catalog Number: ATGP3579

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

25-430aa

UniProt No.

Q62997

NCBI Accession No.

NP_037091

Alternative Names

GDNF family receptor alpha-1, Gfra1, GFR-alpha-1, RET ligand 1, TGF-beta-related neurotrophic factor receptor 1, Retl1, Trnr1

PRODUCT SPECIFICATION

Molecular Weight

72.3 kDa (645aa)

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

Description

Gfra1, also known as GDNF family receptor alpha-1, is a member of the GDNF receptor family. It is a glycosyl-phosphatidylinositol (GPI) -linked cell surface receptor for both Glial cell line-derived growth factor (GDNF), neurturin (NTN), and mediates activation of the RET tyrosine kinase receptor. This protein is a potent survival

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factor for central and peripheral neurons, and is essential for the development of kidneys and the enteric nervous system. Recombinant rat Gfra1 protein, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

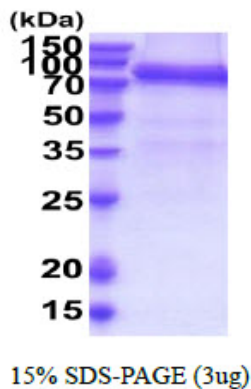
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SMYQSLQGND LLEDSPYEPV NSRLSDIFRA VPFISDVFQQ VEHISKGNNC LDKAKACNLD DTCKKYRSAY ITPCTTSMSN
EVCNRRKCHK ALRQFFDKVP AKHSYGMLFC SCRDIACER RRQTIVPVCS YEERERPNCL SLQDSCKTNY ICRSLADFF
TNCQPESRSV SNCLKENYAD CLLAYSGLIG TVMTPNYVDS SLSVAPWCD CSNSGNDLED CLKFLNFFKD NTCLKNAIQA
FGNGSDVTMW QPAPPVQTTT ATTTTAFRVK NKPLGPAGSE NEIPTHVLPV CANLQAQKLL SNVSGSTHLC LSDSDFGKDG
LAGASSLEPK SCDKTHTCPV CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK
TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL
VKGFPYSDIA VEWESNGQPE NNYKTTTPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGKH
HHHHH

General References

Gassei K. et al., (2009) Cell Tissue Res. 337:177-183.
Irala D. et al., (2016) Development. 143: 4224-4235.

DATA

SDS-PAGE



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