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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

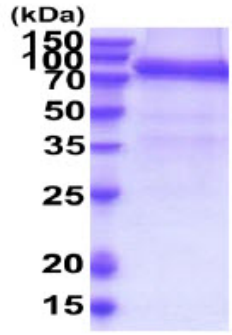
DRLDCVKASD QCLKEQSCST KYRTLRQCVA GKETNFSLTS GLEAKDECRS AMEALKQKSL YNCRCKRGMK KEKNCLRIYW SMYQSLQGND LLEDSPYEPV NSRLSDIFRA VPFISDVFQQ VEHISKGNNC LDAAKACNLD DTCKKYRSAY ITPCTTSMSN EVCNRRKCHK ALRQFFDKVP AKHSYGMLFC SCRDIACTER RRQTIVPVCS YEERERPNCL SLQDSCKTNY ICRSRLADFF TNCQPESRSV SNCLKENYAD CLLAYSGLIG TVMTPNYVDS SSLSVAPWCD CSNSGNDLED CLKFLNFFKD NTCLKNAIQA FGNGSDVTMW QPAPPVQTTT ATTTTAFRVK NKPLGPAGSE NEIPTHVLPP CANLQAQKLK SNVSGSTHLC LSDSDFGKDG LAGASSLEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTPPVL 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



15% SDS-PAGE (3ug)

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