Recombinant human Neurexophilin-1/NXPH1 protein

Catalog Number: ATGP3559

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
22-271aa

UniProt No.
P58417

NCBI Accession No.
NP_689958

Alternative Names
Neurexophilin-1, NXPH1, Nbla00697, NPH1

PRODUCT SPECIFICATION

Molecular Weight
29.7 kDa (259aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

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

Purity
> 90% by SDS-PAGE

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

Tag
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
NXPH1, also known as Neurexophilin-1, is one of at least four vertebrate neuropeptide-like secreted glycoproteins in the neurexophilin family. It encodes a secreted protein with a variable N-terminal domain, a highly conserved, N-glycosylated central domain, a short linker region, and a cysteine-rich C-terminal domain. This protein forms a very tight complex with alpha neurexins, a group of proteins that promote adhesion

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between dendrites and axons. Genetic deletion of NXPH1 and/or NXPH-3 produces no anatomical effect, although mice lacking NXPH-3 show defects in motor coordination. Recombinant human NXPH1 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

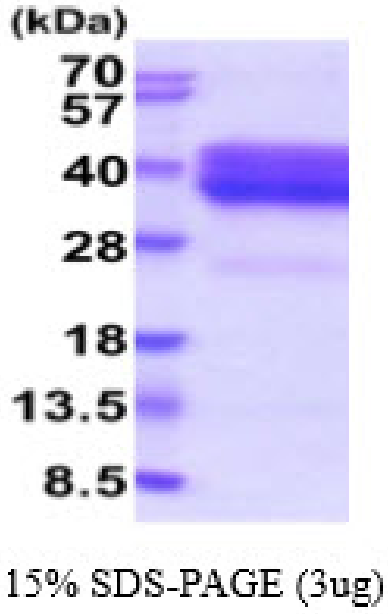
ADPANLTNGG KSELLKSGSS KSTLKHIWTE SSKDLSISRL LSQTFRGKEN DTDLDLRYDT PEPYSEQDLW DWLRNSTDLQ EPRPRAKRRP IVKTGKFKKM FGWGDFHSNI KTVKLNLLIT GKIVDHGNGT FSVYFRHNST GQGNVSVSLV PPTKIVEFDL AQQTVIDAKD SKSFNCRIEY EKVDKATKNT LCNYDPSKTC YQEQTQSHVS WLCSKPFKVI CIYISFYSTD YKLVQKVCPD YNYHSDTPYF PSGHHHHHH

General References

Kinzfogl J., et al. (2011) Blood. 118:565-575.
Wouters MM., et al. (2014) Gut. 63:1103-1111.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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