

Recombinant human Neuropilin 1/NRP1 protein

Catalog Number: ATGP3769

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-856aa

UniProt No.

O14786

NCBI Accession No.

NP_003864.4

Alternative Names

Neuropilin-1 isoform a, NRP1, BDCA4, CD304, NP1, NRP, VEGF165R, Vascular endothelial cell growth factor 165 receptor

PRODUCT SPECIFICATION

Molecular Weight

94.8 kDa (843aa)

Concentration

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

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% 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

NRP1, also known as neuropilin-1 isoform a, is a type 1 transmembrane protein. This protein is a membrane-bound coreceptor to a tyrosine kinase receptor for both vascular endothelial growth factor and semaphorin family members. It is a VEGF165 and semaphorin receptor expressed by vascular endothelial cells (EC) and

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tumor cells. It is a co-receptor for VEGF receptor (VEGFR2) that enhances the binding of VEGF 165 to VEGFR2 and VEGF165-mediated chemotaxis. Also, it plays versatile roles in angiogenesis, axon guidance, cell survival, migration, and invasion. Recombinant human NRP1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

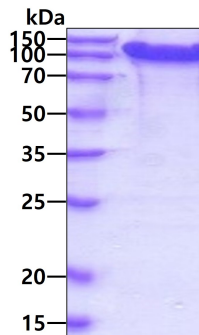
FRNDKCGDTI KIESPGYLTS PGYPHSYHPS EKCEWLIQAP DPYQRIMINF NPHFDLEDRD CKYDYVEVFD GENENGHFRG
 KFCGKIAPPP VVSSGPFLFI KFDSDYETHG AGFSIRYEIF KRGPECSQNY TTPSGVIKSP GFPEKYPNSL ECTYIVFAPK
 MSEIILEFES FDLEPDSNPP GGMFCRYDRL EIWDGFPDVG PHIGRYCGQK TPGRIRSSSG ILSMVFYTDS AIAKEGFSAN
 YSVLQSSVSE DFKCMEALGM ESGEIHSQI TASSQYSTNW SAERSRLNYP ENGWTPGEDS YREWIQVDLG LLRFVTVAVGT
 QGAISKETKK KYVVKTYKID VSSNGEDWIT IKEGNKPVLF QGNTNPTDVV VAVFPKPLIT RFVRIKPATW ETGISMRFEV
 YGCKITDYPC SGMLGMVSGI ISDSQITSSN QGDRNWMPEN IRLVTSRSGW ALPPAPHSYI NEWLQIDLGE EKIVRGIIIQ
 GGLHRENKVF MRKFKIGYSN NGSDWKMIMD DSKRKAKSFE GNNNYDTPEL RTFPALSTRF IRIYPERATH GGLGLRMELL
 GCEVEAPTAG PTPPNGNLVD ECDDDQANCH SGTGDDFQLT GGTTVLATEK PTVIDSTIQS EFPTYGFNCE FGWGSHTKFC
 HWEHDNHVQL KWSVLTSKTG PIQDHTGDGN FIYSQADENQ KGKVARLVSP VVYSQNSAHC MTFWYHMSG
 HVGTLRVKLR YQKPEEYDQL VWMAIGHQGD HWKEGRVLLH KSLKLYQVIF EGEIGKGNLG GIAVDDISIN NHISQEDCAK
 PADLDKKNPE IKIDETGSTP GYELEGEGDK NISRKPGNVL KTLDP<LEHHH HHH>

General References

Soker S., et al, (1998) Cell 92:735-745.
 He Z., et al, (1997) Cell 90:739-751.

DATA

SDS-PAGE



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