

Recombinant rat Neuropilin 1/NRP1 protein

Catalog Number: ATGP3362

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-855aa

UniProt No.

Q9QWJ9

NCBI Accession No.

NP_659566.1

Alternative Names

Neuropilin-1, Nrp1, NRP, Vascular endothelial cell growth factor 165 receptor, CD304

PRODUCT SPECIFICATION

Molecular Weight

94.8 kDa (842aa)

Concentration

0.25mg/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

Nrp1, also known as neuropilin-1, is a transmembrane glycoprotein that regulates axon guidance and angiogenesis. It acts as a receptor for two different extracellular ligands, class 3 semaphorins and specific isoforms of vascular endothelial growth factor. It is likely to mediate contacts between the dendritic cells and the T lymphocytes via homotypic interactions and is essential for the initiation of the primary immune response.

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Recombinant rat Nrp1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

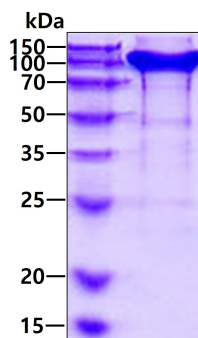
FRSDKCGGTI KIENPGYLTS PGYPHSYHPS EKCEWLIQAP EPYQRIMINF NPHFDLEDRD CKYDYVEVID GENEGRRLWG
KFCGKIAPSP VVSSGPFLFI KVS DYETHG AGFSIRYEIF KRGPECSQNY TAPTGVIKSP GFPEKYPNSL ECTYIIFAPK
MSEIILEFES FDLEQDSNPP GGVFCRYDRL EIWDGFPEVG PHIGRYCGQK TPGRIRSSSG ILSMVFYTD S AIAKEGFSAN
YSVLQSSISE DFKCMEALGM ESGEIHSDQI TASSQYGTNW SVERSRLNYP ENGWTPGEDS YREWIQVDLG LLRFVTAVGT
QGAISKETKK KYVVKTYRVD ISSNGEDWIT LKEGNKAIIF QGNTNPTDVV FGVFPKPLIT RFVRIKPASW ETGISMRFEV
YGCKITDYPC SGMLGMV SGL ISDSQITASN QGDRNWMPEN IRLVTSRTGW ALPPSPHPYI NEWLQVDLGD EKIVRGVIIQ
GGKHRENKVF MRKFKIAYSN NGSDWKMIMD DSKRKAKSFE GNNNYDTPEL RAFTPLSTRF IRIYPERATH SGLGLRMELL
GCEVEVPTAG PTPPNGNPVD ECDDDQANCH SGTGDDFQLT GGTTVLATEK PTIIDSTIQS EFPTYGFNCE FGWGSHTKFC
HWEHDSHAQL RWRVLTSTGT PIQDHTGDGN FIYSQADENQ KGKVARLVSP VVYSQSSAHC MTFWYHMSG S
HVGTLRVKLH YQKPEEYDQL VWMVVGHQGD HWKEGRVLLH KSLKLYQVIF EGEIGKGNLG GIAVDDISIN NHIPQEDCAK
PTDLDKK NTE IKIDETGSTP GYEEGKGDKN ISRKPGNVLK TLDP<LEHHHH HH>

General References

Bielenberg DR., et al. (2006) *Exp Cell Res.* 312:584-593.
Soker S., et al. (1998) *Cell.* 92:735-745.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain