# Recombinant mouse Neuropilin 1/NRP1 protein

Catalog Number: ATGP3360

## PRODUCT INFORMATION

**Expression system**
Baculovirus

**Domain**
22-856aa

**UniProt No.**
P97333

**NCBI Accession No.**
NP_032763

**Alternative Names**
Nrp1, NPN-1, NP-1, Neuropilin-1, CD304, C530029I03, A5 protein

## PRODUCT SPECIFICATION

**Molecular Weight**
94.7 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, is a transmembrane glycoprotein that acts as a co-receptor for a number of extracellular ligands including class III/IV semaphorins, certain isoforms of vascular endothelial growth factor and transforming growth factor beta. It binds vascular endothelial growth factor (VEGF) -A and is thought to act as a coreceptor for kinase insert domain-containing receptor (KDR) by associating with KDR and enhancing VEGF

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signaling. It is a marker of regulatory T cells. Recombinant mouse Nrp1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Amino acid Sequence**

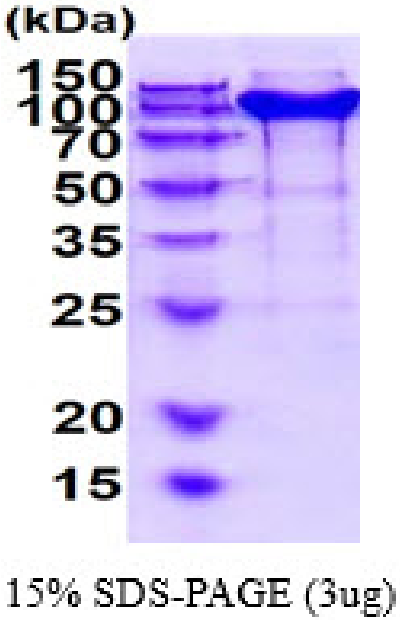
FRSDKCGGTI KIENPGYLTS PGYPHSYHPS EKCEWLIQAP EPYQRIMINF NPHFDLEDRD CKYDYVEVID GENEGGRLWG KFCGKIAPSP VVSSGPFLFI KFVSDYETHG AGFSIRYEIF KRGPECSQNY TAPTGVIKSP GFPEKYPNSL ECTYIIFAPK MSEIILEFES FDLEQDSNPP GGMFCRYDRL EIWDGFPEVG PHIGRYCGQK TPGRIRSSSG VLSMVFYTDS AIAKEGFSAN YSVLQSSISE DFKCMEALGM ESGEIHSDQI TASSQYGTNW SVERSRLNYP ENGWTPGEDS YKEWIQVDLG LLRFVTAVGT QGAISKETKK KYYVKTYRVD ISSNGEDWIS LKEGNKAIIF QGNTNPTDVV LGVFSKPLIT RFVRIKPVSW ETGISMRFEV YGCKITDYPC SGMLGMVSGL ISDSQITASN QADRNWMPEN IRLVTSRTGW ALPPSPHPYT NEWLQVDLGD EKIVRGVIIQ GGKHRENKVF MRKFKIAYSN NGSDWKTIMD DSKRKAKSFE GNNNYDTPEL RTFSPLSTRF IRIYPERATH SGLGLRMELL GCEVEAPTAG PTTPNGNPVD ECDDDQANCH SGTGDDFQLT GGTTVLATEK PTIIDSTIQS EFPTYGFNCE FGWGSHKTFC HWEHDSHAQL RWSVLTSKTG PIQDHTGDGN FIYSQADENQ KGKVARLVSP VVYSQSSAHC MTFWYHMSGS HVGTLRVKLR YQKPEEYDQL VWMVVGHQGD HWKEGRVLLH KSLKLYQVIF EGEIGKGNLG GIAVDDISIN NHISQEDCAK PTDLDKKNTE IKIDETGSTP GYEGEGEGDK NISRKPGNVL KTLDPLEHHH HHH

**General References**

Chaudhary B., et al. (2014) Cancer Immunol Immunother. 63:81-99.
Herzoq B., et al. (2011) Mol Biol Cell. 22:2766-2776.
Glinka Y., et al. (2008) J Leukoc Biol. 84:302-310.

## DATA

**SDS-PAGE**




15% SDS-PAGE (3ug)

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