

Datasheet for ABIN5855124

Neuropilin 1 Protein (NRP1) (AA 22-856) (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	Neuropilin 1 (NRP1)
Protein Characteristics:	AA 22-856
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neuropilin 1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	FRNDKCGDTI KIESPGYLTS PGYPHSYHPS EKCEWLIQAP DPYQRIMINF NPHFDLEDRD CKYDYVEVFD GENENGHFRG KFCGKIAPPP VVSSGPFLFI KFVSDYETHG AGFSIRYEIF KRGPECSQNY TTPSGVIKSP GFPEKYPNSL ECTYIVFAPK MSEIILEFES FDLEPDSNPP GGMFCRYDRL EIWDGFPDVG PHIGRYCGQK TPGRIRSSSG ILSMVFYTDS AIAKEGFSAN YSVLQSSVSE DFKCMEALGM ESGEIHSQI TASSQYSTNW SAERSRLNYP ENGWTPEGDS YREWIQVDLG LLRFVTAVGT QGAISKETKK KYVVKTYKID VSSNGEDWIT IKEGNKPVLF QGNTNPTDVV VAVFPKPLIT RFVRIKPATW ETGISMRFEV YGCKITDYPC SGMLGMVSGL ISDSQITSSN QGDRNWMPEN IRLVTSRSGW ALPPAPHSYI NEWLQIDLGE EKIVRGIIIQ GGKHRENKVF MRKFKIGYSN NGSDWKMIMD DSKRKAJSFE GNNNYDTPPEL RTFPALSTRF IRIYPERATH GGLGLRMELL GCEVEAPTAG PTPNGNLVD ECDDQANCH SGTGDDFQLT GGTTVLATEK PTVIDSTIQS EFPTYGFNCE FGWGSHTKFC HWEHDNHVQL KWSVLTSKTG PIQDHTGDGN FIYSQADENQ KGKVARLVSP VVYSQNSAHC MTFWYHMSG S HVGTLRVKLR
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Product Details

YQKPEEYDQL VWMAIGHQGD HWKEGRVLLH KSLKLYQVIF EGEIGKGNLG GIAVDDISIN
NHISQEDCAK PADLDKKNPE IKIDETGSTP GYEGEGEGDK NISRKPGNVL KTLDPLEHHH HHH

Purity: > 90 % by SDS - PAGE

Endotoxin Level: < 1.0 EU per 1ug of protein (determined by LAL method)

Target Details

Target: Neuropilin 1 (NRP1)

Alternative Name: NRP1 ([NRP1 Products](#))

Background: 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 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.

Molecular Weight: 94.8kDa (843aa) 100-150kDa (SDS-PAGE under reducing conditions.)

NCBI Accession: [NP_003864](#)

UniProt: [O14786](#)

Pathways: [Regulation of Cell Size, Signaling Events mediated by VEGFR1 and VEGFR2, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling, VEGFR1 Specific Signals](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 20 % glycerol.

Handling

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.