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**Product Data Sheet**


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Product Name: NRP1 Rat  
 Cat. No.: GP20780  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Neuropilin-1; Vascular endothelial cell growth factor 165 receptor; CD304; Nrp1.

Amino Acid Sequence  
 FRSDKCGGTI KIENPGYLTS PGYPHSYHPS EKCEWLIQAP EPYQRIMINF  
 NPHFDLEDRD CKYDYVEVID GENEGGRLWG KFCGKIAPSP VVSSGPFLFI  
 KVVSDYETHG AGFSIRYEIF KRGPECSQNY TAPTGVIKSP GFPEKYPNSL  
 ECTYIIFAPK MSEIILEFES FDLEQDSNPP GGVFCRYDRL EIWDGFPEVG  
 PHIGRYCGQK TPGRIRSSSG ILSMVFYTDS AIAKEGFSAN YSVLQSSISE  
 DFKCMEALGM ESGEIHSDQI TASSQYGTNW SVERSRLNYP ENGWTPGEDS  
 YREWIQVDLG LLRFVTAVGT QGAISKETKK KYVVKTYRVD ISSNGEDWIT  
 LKEGNKAIIF QGNTNPTDVV FGVFPKPLIT RFVRIKPASW ETGISMRFEV  
 YGCKITDYPC SGMLGMVSGI ISDSQITASN QGDRNWMPEN IRLVTSRTGW  
 ALPPSPHPYI NEWLQVDLGD EKIVRGVIIQ GGKHRENKVF MRKFKIAYSN  
 NGSDWKMIMD DSKRKAKSFE GNNNYDTPEL RAFTPLSTRF IRIYPERATH  
 SGLGLRMELL GCEVEVPTAG PTPPNGNPVD ECDDDQANCH SGTGDDFQLT  
 GGTTVLATEK PTIIDSTIQS EFPTYGFNCE FGWGSHTKFC HWEHDSHAQL  
 RWRVLTSTKG PIQDHTGDGN FIYSQADENQ KGKVARLVSP VVYSQSSAHC  
 MTFWYHMSGH HVGTLRVKLH YQKPEEYDQL VWMVVGHQGD HWKEGRVLLH  
 KSLKLYQVIF EGEIGKGNLG GIAVDDISIN NHIPQEDCAK PTDLDKKNTE  
 IKIDETGSTP GYEKGKGDKN ISRKPGNVLK TLDPLEHHHH HH

Formulation NRP1 protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Introduction**

Neuropilin 1 (Nrp1) is a transmembrane glycoprotein which functions as a co-receptor for several extracellular ligands including class III/IV semaphorins, some isoforms of

**Caution: Product has not been fully validated for medical applications. For research use only.**

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vascular endothelial growth factor and transforming growth factor beta. Nrp1 binds vascular endothelial growth factor (VEGF)-A and is believed to serve as a coreceptor for kinase insert domain-containing receptor (KDR) by connecting with KDR and enhancing VEGF signaling. Nrp1 is a marker of regulatory T cells.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

NRP1 Rat Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 842 amino acids (22-855 a.a.) and having a molecular mass of 94.8kDa (Migrates at 100-150kDa on SDS-PAGE under reducing conditions).NRP1 is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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