
Product Data Sheet

Product Name: NRP1 Human
 Cat. No.: GP20778
 Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

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

Amino Acid Sequence
 FRNDKCGDTI KIESPGYLTS PGYPHSYHPS EKCEWLIQAP DPYQRIMINF
 NPHFDLEDRD CKYDYVEVFD GENENGHFRG KFCGKIAPPP VVSSGPFLFI
 KVVSDYETHG AGFSIRYEIF KRGPECSQNY TTPSGVIKSP GFPEKYPNSL
 ECTYIVFAPK MSEIILEFES FDLEPDSNPPGGMFCRYDRL EIWDGFPDVG
 PHIGRYCGQK TPGRIRSSSG ILSMVFYTDS AIAKEGFSAN YSVLQSSVSE
 DFKCMEALGM ESGEIHSDQI TASSQYSTNW SAERSRLNYP ENGWTPGEDS
 YREWIQVDLG LLRFVTAVGT QGAISKETKK KYVVKTYKID VSSNGEDWIT
 IKEGNKPVLFQGNTNPTDVV VAVFPKPLIT RFVRIKPATW ETGISMRFEV
 YGCKITDYPC SGMLGMVSGI ISDSQITSSN QGDRNWMPEN IRLVTSRSGW
 ALPPAPHSYI NEWLQIDLGE EKIVRGIIIQ GGKHRENKVF MRKFKIGYSN
 NGSDWKMIMD DSKRKAKSFE GNNNYDTPEL RTFPALSTRFIRIYPERATH
 GGLGLRMELL GCEVEAPTAG PTPPNGNLVD ECDDDQANCH SGTGDDFQLT
 GGTTVLATEK PTVIDSTIQS EFPTYGFNCE FGWGSHTKFC HWEHDNHVQL
 KWSVLTSKTG PIQDHTGDGN FIYSQADENQ KGKVARLVSP VVYSQNSAHC
 MTFWYHMSGH HVGTLRVKLRVQKPEEYDQL VWMAIGHQGD HWKEGRVLLH
 KSLKLYQVIF EGEIGKGNLG GIAVDDISIN NHISQEDCAK PADLDKKNPE
 IKIDETGSTP GYEGEGEGDK NISRKPGNVL KTLDPLEHHH HHH.

Formulation NRP1 protein solution (0.25mg/ml) contains phosphate buffered saline (pH7.4) and 20% glycerol.

Introduction

NRP1 is a coreceptor bound on membranes to tyrosine kinase receptors for semaphorin family proteins and endothelial growth factors, it is a type one transmembrane protein.

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

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Neuropilin-1 takes part in cell survival, angiogenesis, invasion, migration, and axon guidance. the protein is a potential target for cancer therapies as it interacts with VEGF (co-receptor).

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 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 843 amino acids (22-856a.a.) and having a molecular mass of 94.8kDa. (Molecular size on SDS-PAGE will appear at approximately 100-150kDa).NRP1 is expressed with a 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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