

TECHNICAL DATA SHEET

# Recombinant Human Slit2-N (Carrier-free)

Catalog Number: 21-7132

**RPx-Pro™ Recombinant Protein**

PRODUCT INFORMATION

**CONTENTS**

Recombinant Human Slit2-N (Carrier-free)

**DESCRIPTION**

Slit2 belongs to the Slit family of proteins that, along with the Roundabout (Robo) family of receptors, act as guidance cues for cellular migration. In mammals, there are 3 known Slit proteins and 4 Robo receptors. Slit2 associates with Robo1 to contribute to various functions including leukocyte chemotaxis, angiogenesis, neuronal migration and mediating repulsive cues in axon guidance. It has also been reported to inhibit tumor growth and migration in certain types of cancers. Slit2 is initially synthesized as a precursor protein which is subsequently cleaved into N-terminal (Slit2-N) and C-terminal (Slit2-C) fragments. Slit2-N is the larger protein and is associated with neurodevelopment-related activities.

**MOLECULAR MASS**

Recombinant Human Slit2-N corresponds to the N-terminal portion of full length Slit2. It is 1093 amino acids and has a calculated molecular weight of 122.35 kDa. Due to glycosylation, it migrates at about 120-140 kDa under reducing conditions.

**AMINO ACID SEQUENCE**

QACPAQCSCS GSTVDCHGLA LRSVPRNIPR NTERLDLNGN NITRITKTDF AGLRHLRVLQ LMENKISTIE RGAQDLKEL ERLRLNRNHL QLFPELLFLG TAKLYRLDLS ENQIQAI PRK AFRGAVDIKN LQLDYNQISC IEDGAFRALR DLEVLTLNNN NITRLSVASF NHMPKLR TFR LHSNNLYCDC HLAWLSDWLR QRPRVGLYTQ CMGPSHLRGH NVAEVQKREF VCSGHQSFMA PSCSVLHCPA ACTCSNNIVD CRGKGLTEIP TNLPETITEI RLEQNTIKVI PPGAFSPYKK LRRIDLNNQ ISELAPDAFQ GLRSLNSLV L YGNKITELPK SLFEGFLSLQ LLLL NANKIN CLRVD AFQDL HNLNLLSLYD NKLQTIAGT FSPLRAIQTM HLAQNPFICD CHLKW LADYL HTNPIETSGA RCTSPRRLAN KRIGQIKSKK FRCSAKEQYF IPGTEDYRSK LSGDCFADLA CPEKCRCEGT TVDCSNQKLN KIPEHIPQYT AELRLNNEF TVLEATGIFK KLPQLRKINF SNNKITDIEE GAFEGASGVN EILLTSNRLE NVQHKMFKGL ESLKTLMLRS NRITCVGNDS FIGLSSVRL L SLYDNQITTV APGAFDTLHS LSTLNLNANP FNCNCYLAWL GEWLRKKRIV TGNPRCQKPY FLKEIPIQDV AIQDFTCDDG NDDNSCSPLS RCPTECTCLD TVVRC SNKGL KVLPGKIPRD VTELYLDGNQ FTLVPKELSN YKHLTLIDLS NNRISTLSNQ SFSNMTQLLT LILSYNRLRC IPPRTFDGLK SLRLLSLHGN DISVVEGAF NDLSALSHLA IGANPLYCDC NMQWLSDWVK SEYKEPGIAR CAGPGEMADK LLLTTPSKKF TCQGPVDVNI LAKCNPCLSN PCKNDGTCNS DPVDFYRCTC PYGFKGQDCD VPIHACISNP CKHGGTCHLK EGEEDGFWCI CADGFEGENC EVNVDDCEDN DCENNSTCVD GINNYTCLCP PEYTGELCEE KLDFCAQDLN PCQHDSKCIL TPKGFKCDCT PGYVGEHCDI DFDDCQDNKC KNGAHCTDAV NGYTCICPEG YSGLFCEFS PMV

**SOURCE**

HEK293 cells

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**ENDOTOXIN LEVEL**

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

**BIOACTIVITY**

The ability to inhibit MC3T3/E1 osteoblast differentiation is measured to determine activity.

**RESEARCH AREAS**

Angiogenesis & Cardiovascular, Chemotaxis, Cancer, Wound Healing, AIDS/HIV, Neurobiology

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

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