

Netrin-1 Protein, Rat, Recombinant (X544S & X576S & X589S, His)

General Information

Synonyms: Ntn1;Netrin-1

Protein Construction: 25-604 aa (X544S,X576S,X589S)

Species: Rat

Expression Host: E. coli

Accession: Q924Z9

Molecular Weight: 68.1 kDa (predicted)

AA Sequence: GPGLSMFAGQAAQDPDPCSDENGHPRRCIPDFVNAAFGKDVRVSSTCGRPPARYCVVSEERGEERLRSCHLCN
SSDPKKAHPPAFLTDLNPNHNLTCWQSENYLQFPHNVTLTLSLGGKFEVTVVSLQFCSPRPESMAIYKSM DY
GRTWVPPFQFYSTQCRKMYNRP HRAPITKQNEQEAVCTDSHTDMRPLSGGLIAFSTLDGRPSAHDFD NSPVL
QDWVTATDIRVAFSRLHTFGDENEDDSELARDSYYYAVSDLQVGGRCCKNGHAARCVRDRDDSLVCD CRH
NTAGPECDRCKPFHYDRPWQRATAREANECVACNCNLHARRCRFNEMELYKLSGRKSGGVCLNCRHNTAGR
HCHYCKEGFYRDMGKPIHRKACKACDCHPVGAAGKTCNQTTGQCCKDGVGTGTCNRCAKGYQQSRSP IA
PCIKIPVAPPTTAASSMEEPEDCDSYCKASKGKLMNMKKYCRKDYAVQIHILKADKAGDWWKFTVNIISVYK
QGTSRIRRGDQSLWIRSRDIASKCPKIKPLKYYLLGNAEDSPDQSGIVADKSSLVIQWRD TWARRSRKFQQR
EKKGKCKKA

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/ μ g of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Netrins control guidance of CNS commissural axons and peripheral motor axons. Its association with either DCC or some UNC5 receptors will lead to axon attraction or repulsion, respectively. Binding to UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion. Involved in dorsal root ganglion axon projection towards the spinal cord. It also serves as a survival factor via its association with its receptors which prevent the initiation of apoptosis. Involved in colorectal tumorigenesis by regulating apoptosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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