

Recombinant Mouse Neurexophilin-1/NXPH1 Protein (His Tag)

Catalog No. PKSM040456

Note: Centrifuge before opening to ensure complete recovery of vial contents.

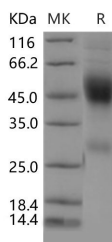
Description

Synonyms	C130005L03Rik
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Ala22-Gly271
Accession	Q61200
Calculated Molecular Weight	30.1 kDa
Observed molecular weight	46-48 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 85 % as determined by reducing SDS-PAGE.

Background

Neurexophilin-1, or NXPH1 is a secreted glycoprotein, which belongs to the Neurexophilin family. The Neurexophilin family contain at least four genes and resembles a neuropeptide, suggesting a function as an endogenous ligand for alpha-

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neurexins. The mammalian brains contain four genes for neurexophilins the products of which share a common structure composed of five domains: an N-terminal signal peptide, a variable N-terminal domain, a highly conserved central domain that is N-glycosylated, a short linker region, and a conserved C-terminal domain that is cysteine-rich. Neurexophilin-1 constitutes a secreted cysteine-rich glycoprotein, forms a very tight complex with alpha neurexins, a group of proteins that promote adhesion between dendrites and axons. Neurexophilins 1 and 3 but not 4 (neurexophilin 2 is not expressed in rodents) bind to a single individual LNS domain, the second overall LNS domain in all three alpha-neurexins.