Data Sheet (Cat.No.TMPJ-01033)

NXPH1 Protein, Human, Recombinant (His)

General Information

Synonyms:	NXPH1;Neurexophilin-1;NPH1
Protein Construction:	Ala22-Gly271
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P58417
Molecular Weight:	40-60 KDa (reducing condition)
AA Sequence:	Ala22-Gly271

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:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/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

Neurexophilin-1 (NXPH1) is a member of Neurexophilin family. NXPH1 consist of 271 amino acis. It contains a 21 amino acid signal peptide, 86 amino acid propeptide, and 164 amino acid mature protein. NXPH1 is expressed in subpopulations of neurons within the cerebral cortex, cerebellum and olfactory bulb that are thought to be inhibitory interneurons. In humans, NXPH2 and NXPH3 are most similar to NXPH1, sharing 84% and 64% aa identity within the mature region, respectively. By contrast, NXPH4 dost not bind a-neurexins. Genetic deletion of

NXPH1 or NXPH3 produces no anatomical effect.

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