

NTNG1 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	NTNG1;LMNT1;Netrin-G1;Laminet-1
Protein Construction:	His29-Ser409
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9Y2I2
Molecular Weight:	80-90 KDa (reducing condition)
AA Sequence:	His29-Ser409

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 95% 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 PBS, pH 7.4.

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

Netrin-G1, known as NTNG-1, and is a member of the UNC-6/Netrin family of proteins. The NTNG1 gene is located on chromosome 1p13.3 and encodes a glycosylphosphatidylinositol protein anchored to the presynaptic membrane. Netrin G1 molecule has been described to be involved in axonal guidance/maintenance and axonal growth cone by specifically interacting with its receptor the Netrin G1 ligand (NGL-1), which is located at the postsynaptic compartment. Netrin Gs knockout mice have disturbed subdendritic laminar organization of their

specific synaptic ligands (Ngl1 and Ngl2).

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