

Synonym

Source

Human Neuroligin-4, Y-linked, His Tag (NL1-H5228) is expressed from human 293 cells (HEK293). It contains AA Gln 44 - Ser 676 (Accession # Q8NFZ3-1). Predicted N-terminus: Gln 44

Molecular Characterization

Neuroligin-4, Y-linked(Gln 44 - Ser 676) Q8NFZ3-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 73.1 kDa. The protein migrates as 85-105 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

Storage

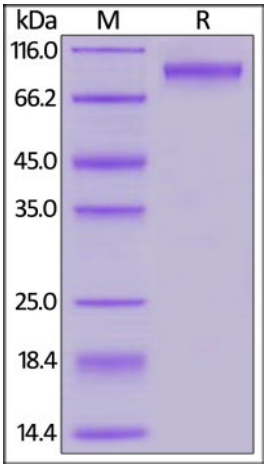
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Neuroligin-4, Y-linked, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Background

Neuroligin 4, Y-linked (NLGN4Y) a type I membrane protein that belongs to the family of neuroligins, which are cell adhesion molecules present at the postsynaptic side of the synapse, and may be essential for the formation of functional synapses. Alternatively spliced transcript variants have been found for NLGN4Y gene. NLGN4Y was expressed in fetal and adult brain, prostate, testis, pancreas. NLGN4Y is homologous with its X-linked homolog, NLGN4X.

References

- (1) [Serajee FJ, Mahbubul Huq AH., 2009, J Child Neurol., 24\(10\):1258-1261.](#)
- (2) [Yan J, et al., 2008, Psychiatr Genet, 18\(4\):204-207.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.