Data Sheet (Cat.No.TMPY-00562)

TargetMol

NLGN4X Protein, Human, Recombinant (hFc)

General Information

Synonyms:	neuroligin 4, X-linked;AUTSX2;HNL4X;KIAA1260;NLGN4;HLNX;ASPGX2
Protein Construction:	A DNA sequence encoding the human NLGN4X (NP_065793.1) (Met1-Ser676) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Gln 42
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8N0W4
Molecular Weight:	98.2 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

NLGN4X (Neuroligin 4 X-Linked) is a Protein Coding gene. This gene encodes a member of the type-B carboxylesterase/lipase protein family. The encoded protein belongs to a family of neuronal cell surface proteins. NLGN4X interacts with discs large homolog 4 (DLG4). It is broadly expressed in the brain, ovary, and other tissues. Genetic mutations in NLGN4X, including point mutations and copy number variants (CNVs), have been associated with susceptibility to autism spectrum disorders (ASDs). Pathogenic mutations in the NLGN4X gene in ASDs and/or

mental retardation (MR) are rare. Based on in vitro models, NLGN4X knockdown directly impacts the neurodevelopmental process during the formation of neurons and their connections.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481