Recombinant Human Neuroligin-3/NLGN3 Protein (His Tag)

Catalog Number: PKSH031231

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

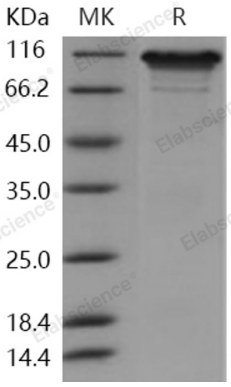
Description

Species	Human
Source	HEK293 Cells-derived Human Neuroligin-3/NLGN3 protein Met 1-Ser 689, with an C-terminal His
Calculated MW	74.0 kDa
Observed MW	100-110 kDa
Accession	Q9NZ94-2
Bio-activity	Not validated for activity

Properties

Purity	> 92 % 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 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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% Tween 80 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



> 92 % as determined by reducing SDS-PAGE.

Background

Neuroligin 3 (NLGN3) is a member of the type-B carboxylesterase/lipase family. Neuroligins (NLGNs) are a family of presumptive postsynaptic cell adhesion molecules. Neuroligins (NLs) constitute a family of cell-surface proteins that interact with neurexins (beta-Nxs), another class of neuronal cell-surface proteins, one of each class functioning together in synapse formation. Neuroligins control the formation and functional balance of excitatory and inhibitory synapses in hippocampal neurons. NLGN1 and NLGN2 isoforms are concentrated at glutamatergic and GABAergic synapses, respectively, but the cellular expression and synaptic localization of the endogenous. NLGN3 was enriched in brain, where NLGN3 protein levels increased during postnatal development, coinciding with the peak of synaptogenesis. The NLGN3 is a synaptic adhesion molecule that is a shared component of glutamatergic and GABAergic synapses. Mutations in NLGN3 gene may be associated with autism and Asperger syndrome.

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