

Synaptotagmin-1 Protein, Human, Recombinant (His)

General Information

Synonyms: SYT;Synaptotagmin-1;Synaptotagmin I (SytI);p65;SYT1;SVP65

Protein Construction: 99-416 aa

Species: Human

Expression Host: E. coli

Accession: P21579

Molecular Weight: 40.3 kDa (predicted)

AA Sequence:

KNAINMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEEEKLGKQLQYSLDYDFQNNQLLVGIIQAAELP
ALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPFVNEQFTFKVPYSELGGKTLVMAVYDFDRFSKHDIIGEF
KVPMNTVDFGHVTEEWRDLQSAEKEEQEKLGDICFSLRYVPTAGKLTVVILEAKNLKMDVGGGLSDPYVKIHL
MQNGKRLKKKTTIKNTLNPYYNESFSFEVPEQIQKVVVTVLDYDKIGKNDIAIGKVFVGYNSTGAELRH
WSDMLANPRRPIAQWHTLQVEEEVDA

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: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

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:

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

Calcium sensor that participates in triggering neurotransmitter release at the synapse. May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl

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backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes.

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