

32-5017: Recombinant Human Synaptotagmin I

Alternative Name : Synaptotagmin-1, Synaptotagmin I, Syt1, p65, SYT1, SVP65, SYT.

Description

Source : Escherichia Coli. SYT1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 256 amino acids (136-382 a.a) and having a molecular mass of 29.5kDa. SYT1 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques. Synaptotagmin-1 (SYT1) is a member of the synaptotagmin family, which contains two C2 domains. The synaptotagmins are integral membrane proteins of synaptic vesicles assumed to function as Ca²⁺ sensors in the process of vesicular trafficking and exocytosis. SYT1 is the principal regulator responsible for allowing the human brain to release neurotransmitters. SYT1 may have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. SYT1 binds acidic phospholipids with a specificity which entails the presence of both an acidic head group and a diacyl backbone. SYT1 can also bind to at least 3 additional proteins in a Ca²⁺-independent manner; these being neurexins, syntaxin and AP2.

Product Info

Amount :	5 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	SYT1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 20% glycerol and 100mM NaCl.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MEPKKEEKLG KLQYSLDYDF QNNQLLVGII QAAELPALDM GGTSDPYVKV FLLPDKKKKF ETKVHRKTLN PVFNEQFTFK VPYSELGGKT LVMAVYDFDR FSKHDIIGEF KVPMTVDVFG HVTEEWRDLQ SAEKEEQEKL GDICFSLRYV PTAGKLTVVI LEAKNLKKMD VGGLSDPYVK IHLMQNGKRL KKKKTTIKKN TLNPYYNESF SFEVPFEQIQ KVQVVVTVLD YDKIGKNDAI GKVFVGYNLE HHHHHH.

