9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SYT1 Human

Synaptotagmin I Human Recombinant
RCP2303

Product Overview

Name	SYT1 Human
Description	
Synaptotagmin I Human Recombinant	
Accession (Primary)	P21579
Synonyms	
Synaptotagmin-1, Synaptotagmin I, SytI, p65, SYT1, SVP65, SYT.	
Introduction	
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 Ca(2+) 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
SYT1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 20% glycerol and 100mM NaCl.	
Stability	
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.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MEPKEEEKLG KLQYSLDYDF QNNQLLVGII QAAELPALDM GGTSDPYVKV FLLPDKKKKF ETKVHRKTLN	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

PVFNEQFTFK VPYSELGGKT LVMAVYDFDR FSKHDIIGEF KVPMNTVDFG HVTEEWRDLQ SAEKEEQEKL GDICFSLRYV PTAGKLTVVI LEAKNLKKMD VGGLSDPYVK IHLMQNGKRL KKKKTTIKKN TLNPYYNESF SFEVPFEQIQ KVQVVVTVLD YDKIGKNDAI GKVFVGYN LE HHHHHH .

Precautions

SYT1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P21579)