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

SNTA1 Human

Syntrophin, Alpha 1 Human Recombinant
RCP2178

Product Overview

Name	SNTA1 Human
Description	
Syntrophin, Alpha 1 Human Recombinant	
Accession (Primary)	Q13424
Synonyms	
Alpha-1-syntrophin, 59 kDa dystrophin-associated protein A1 acidic component 1, Pro-TGF-alpha cytoplasmic domain-interacting protein 1, TACIP1, Syntrophin-1, SNTA1, SNT1, LQT12, dJ1187J4.5.	
Introduction	
SNTA1 is a member of the syntrophin gene family. SNTA1 is a peripheral membrane protein found linked with dystrophin and dystrophin-related proteins. Dystrophin is a large, rod-like cytoskeletal protein located at the inner surface of muscle fibers. Dystrophin is absent in Duchenne Muscular Dystrophy patients, however it is present in reduced amounts in Becker Muscular Dystrophy patients. Syntrophins are cytoplasmic peripheral membrane scaffold proteins and components of the dystrophin-associated protein complex. The N-terminal PDZ domain of SNTA1 interacts with the C-terminus of the pore-forming alpha subunit (SCN5A) of the cardiac sodium channel Nav1.5. In addition, SNTA1 associates cardiac sodium channels with the nitric oxide synthase-PMCA4b (plasma membrane Ca-ATPase subtype 4b) complex in cardiomyocytes. The SNTA1 gene is a predisposition locus for Long-QT syndrome (LQT) - an inherited disorder associated with sudden cardiac death from arrhythmia - and sudden infant death syndrome (SIDS). SNTA1 also associates with dystrophin and dystrophin-related proteins at the neuromuscular junction and modifies intracellular calcium ion levels in muscle tissue.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
SNTA1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 1mM DTT and 0.15M 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.	

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Purity

Greater than 80% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MASGRRA PRTGLLELRA GAGSGAGGER WQRVLLSLAE DVLTVSPADG DPGPEPGAPR EQEPAQLNGA AEPGAGPPQL PEALLLQRRR VTVRKADAGG LGISIKGGRE NKMPILISKI FKGLAADQTE ALFVGDAILS VNGEDLSSAT HDEAVQVLKK TGKEVVLEVK YMKDVSPYFK NSTGGTSVGW DSPPASPLQR QPSSPGPTPR NFSEAKHMSL KMAYVSKRCT PNDPEPRYLE ICSADGQDTL FLRAKDEASA RSWATAIQAQ VNTLTPRVKD ELQALLAATS TAGSQDIKQI GWLTEQLPSG GTAPTLALLT EKELLLYLSL PETREALSRP ARTAPLIATR LVHSGPSKGS VPYDAELSFA LRTGTRHGVD THLFSVESPQ ELAAWTRQLV DGCHRAAEGV QEVSTACTWN GRPCSLSVHI DKGFTLWAAE PGAARAVLLR QPFEKLQMSS DDGASLLFLD FGGAEGEIQL DLHSCPKTIV FIIHSFLSAK VTRLGLLA.

Precautions

SNTA1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q13424)