

Recombinant Human SNTA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SNTA1-6542H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SNTA1 MS Standard C13 and N15-labeled recombinant protein (NP_003089) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Syntrophins are cytoplasmic peripheral membrane scaffold proteins that are components of the dystrophin-associated protein complex. This gene is a member of the syntrophin gene family and encodes the most common syntrophin isoform found in cardiac tissues. The N-terminal PDZ domain of this syntrophin protein interacts with the C-terminus of the pore-forming alpha subunit (SCN5A) of the cardiac sodium channel Nav1.5. This protein also associates cardiac sodium channels with the nitric oxide synthase-PMCA4b (plasma membrane Ca-ATPase subtype 4b) complex in cardiomyocytes. This gene is a susceptibility locus for Long-QT syndrome (LQT) - an inherited disorder associated with sudden cardiac death from arrhythmia - and sudden infant death syndrome (SIDS). This protein also associates with dystrophin and dystrophin-related proteins at the neuromuscular junction and alters intracellular calcium ion levels in muscle tissue.
Molecular Mass	53.9 kDa
AA Sequence	MASGRRAPRTGLLELRAGAGSGAGGERWQRVLLSLAEDVLTVSPADGDPGPEPGA

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PREQEPAQLNGAAEPGAGPPQLPEALLQRRRVTVRKADAGGLGISIKGGRENKMP
 ILISKIFKGLAADQTEALFVGDAILSVNGEDLSSATHDEAVQVLKKTGKEVVLEVKYMK
 DVSPYFKNSTGGTSVGWDSPPASPLQRQPSSPGPTPRNFSEAKHMSLKMAYVSKR
 CTPNDPEPRYLEICSADGQDTLFLRAKDEASARSWATAIQAQVNTLTTPRVKDELQAL
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 APLIATRLVHSGPSKGSVPYDAELSFAIRTGTRHGVDTLHFSVESQPQLAAWTRQLV
 DGCHRAAEGVQEVSTACTWNGRPCSLSVHIDKGFTLWAAEPGAARAVLLRQPFEK
 LQMSSDDGASLLFLDFGGAEGEIQDLHSCPCTIVFIHSFLSAKVTRLGLLASGPTRT
 RPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [SNTA1 syntrophin alpha 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [SNTA1](#)

Synonyms SNTA1; syntrophin, alpha 1 (dystrophin-associated protein A1, 59kDa, acidic component); SNT1, syntrophin, alpha 1 (dystrophin associated protein A1, 59kD, acidic component); alpha-1-syntrophin; pro TGF alpha cytoplasmic domain interacting protein 1; TACIP1; syntrophin-1; acidic alpha 1 syntrophin; pro-TGF-alpha

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cytoplasmic domain-interacting protein 1; 59 kDa dystrophin-associated protein A1
acidic component 1; SNT1; LQT12; dJ1187J4.5;

Gene ID [6640](#)

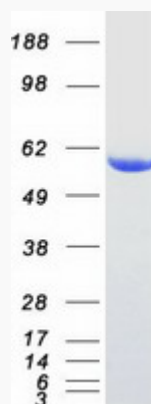
mRNA Refseq [NM_003098](#)

Protein Refseq [NP_003089](#)

MIM [601017](#)

UniProt ID [Q13424](#)

SDS-PAGE



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