

Recombinant Human Syntrophin, Alpha 1 (dystrophin-associated protein A1, 59kDa, acidic component), His-tagged

Cat. No. SNTA1-4831H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SNTA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	SNTA1 is a member of the syntrophin gene family, which is a peripheral membrane protein found associated with dystrophin and dystrophin-related proteins. Dystrophin is a large, rod-like cytoskeletal protein found at the inner surface of muscle fibers. Dystrophin is missing in Duchenne Muscular Dystrophy patients and is present in reduced amounts in Becker Muscular Dystrophy patients.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.
Molecular Weight	56.3 kDa (528aa), confirmed by MALDI-TOF.
Purity	>80% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMASGRRA PRTGLLELRA GAGSGAGGER WQRVLLSLAE DVLTVSPADG DPGPEPGAPR EQEPAQLNGA AEPGAGPPQL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PEALLLQRRR VTVRKADAGG LGISIKGGRE NKMPILISKI FKGLAADQTE
 ALFVGDAILS VNGEDLSSAT HDEAVQVLKK TGKEVVLEVK YMKDVSPYFK
 NSTGGTSVGW DSPPASPLQR QPSSPGPTPR NFSEAKHMSL KMAYVSKRCT
 PNDPEPRYLE ICSADGQDTL FLRAKDEASA RSWATAIQAQ VNTLTPRVKD
 ELQALLAATS TAGSQDIKQI GWLTEQLPSG GTAPTLALLT EKELLYLSL
 PETREALSRP ARTAPLIATR LVHSGPSKGS VPYDAELSFA LRTGTRHGVD
 THLFSVESQP ELAAWTRQLV DGCHRAAEGV QEVSTACTWN GRPCSLSVHI
 DKGFTLWAAE PGAARAVLLR QPFEKLQMSS DDGASLLFLD FGGAEGEIQL
 DLHSCPKTIV FIIHSFLSAK VTRLGLLA

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Signaling mediated by p38-gamma and p38-delta

GENE INFORMATION

Gene Name

SNTA1 syntrophin, alpha 1 (dystrophin-associated protein A1, 59kDa, acidic component) [[Homo sapiens](#)]

Official Symbol

[SNTA1](#)

Synonyms

SNTA1; syntrophin, alpha 1 (dystrophin-associated protein A1, 59kDa, acidic component); SNT1; LQT12; TACIP1; dJ1187J4.5; syntrophin, alpha 1 (dystrophin-associated protein A1, 59kD, acidic component); acidic alpha 1 syntrophin; alpha-1-syntrophin; Pro-TGF-alpha cytoplasmic domain-interacting protein 1; 59 kDadystrophin-associated protein A1 acidic component 1; syntrophin-1

Gene ID

[6640](#)

mRNA Refseq

[NM_003098](#)

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Protein Refseq	NP_003089
MIM	601017
UniProt ID	Q13424
Chromosome Location	14q11.2
Function	PDZ domain binding; actin binding; calmodulin binding; protein binding
PDBrendering based on 1qav.	