

Product datasheet for PH301596

OriGene Technologies, Inc.

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SNAP23 (NM_003825) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: SNAP23 MS Standard C13 and N15-labeled recombinant protein (NP_003816)

Species: Human
Expression Host: HEK293

Expression cDNA Clone

RC201596

or AA Sequence: Predicted MW:

23.4 kDa

Protein Sequence: >RC201596 protein sequence

Red=Cloning site Green=Tags(s)

MDNLSSEEIQQRAHQITDESLESTRRILGLAIESQDAGIKTITMLDEQKEQLNRIEEGLDQINKDMRETE KTLTELNKCCGLCVCPCNRTKNFESGKAYKTTWGDGGENSPCNVVSKQPGPVTNGQLQQPTTGAASGGYI KRITNDAREDEMEENLTQVGSILGNLKDMALNIGNEIDAQNPQIKRITDKADTNRDRIDIANARAKKLID

S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

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

Concentration: >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

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

RefSeq: NP 003816

RefSeq Size: 2650 RefSeq ORF: 633

Synonyms: HsT17016; SNAP-23; SNAP23A; SNAP23B

Locus ID: 8773

UniProt ID: 000161, A8K287





Cytogenetics: 15q15.1-q15.2

Summary: Specificity of vesicular transport is regulated, in part, by the interaction of a vesicle-associated

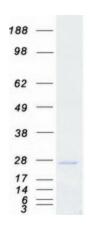
membrane protein termed synaptobrevin/VAMP with a target compartment membrane protein termed syntaxin. These proteins, together with SNAP25 (synaptosome-associated protein of 25 kDa), form a complex which serves as a binding site for the general membrane fusion machinery. Synaptobrevin/VAMP and syntaxin are believed to be involved in vesicular transport in most, if not all cells, while SNAP25 is present almost exclusively in the brain, suggesting that a ubiquitously expressed homolog of SNAP25 exists to facilitate transport vesicle/target membrane fusion in other tissues. The protein encoded by this gene is structurally and functionally similar to SNAP25 and binds tightly to multiple syntaxins and synaptobrevins/VAMPs. It is an essential component of the high affinity receptor for the general membrane fusion machinery and is an important regulator of transport vesicle docking and fusion. Two alternative transcript variants encoding different protein isoforms

have been described for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: SNARE interactions in vesicular transport

Product images:



Coomassie blue staining of purified SNAP23 protein (Cat# [TP301596]). The protein was produced from HEK293T cells transfected with SNAP23 cDNA clone (Cat# [RC201596]) using MegaTran 2.0 (Cat# [TT210002]).