

## Product datasheet for PH301596

### 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 or AA Sequence:	RC201596
Predicted MW:	23.4 kDa
Protein Sequence:	>RC201596 protein sequence Red=Cloning site Green=Tags(s)  MDNLSSEEIQQRAHQITDESLESTRRILGLAIESQDAGIKTITMLDEQKEQLNRIEEGLDQINKDMRETE KTLTELNKCCGLCVCPCNRTKNFESGKAYKTTWGDGGENSPCNVSKQPGPVTNGQLQQPTTGAASGGYI KRITNDAREDEMEENLTQVGSILGNLKDMLNIGNEIDAQNPQIKRITDKADTNRDRIDIANARAKKLID S  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_003816</a>
RefSeq Size:	2650
RefSeq ORF:	633
Synonyms:	HsT17016; SNAP-23; SNAP23A; SNAP23B
Locus ID:	8773
UniProt ID:	<a href="#">O00161</a> , <a href="#">A8K287</a>



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**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]).