Recombinant Human SNAP23 protein, His & T7-tagged

Cat. No. SNAP23-8116H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SNAP23 aa. (Met1~Ser211 (Accession # O00161)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Ser211
Description	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.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.1kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 4.9.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SNAP23 synaptosome associated protein 23 [Homo sapiens (human)]
Official Symbol	SNAP23

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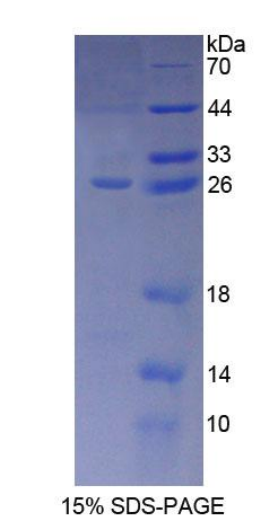
Synonyms	SNAP-23; SNAP23A; SNAP23B; HsT17016; synaptosomal-associated protein, 23kD; synaptosomal-associated protein, 23kDa; synaptosome associated protein 23kDa; vesicle-membrane fusion protein SNAP-23; synaptosomal-associated protein 23
Gene ID	8773
mRNA Refseq	NM_003825.3
Protein Refseq	NP_003816.2
UniProt ID	O00161
SDS-PAGE	 15% SDS-PAGE

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