
Product Data Sheet

Product Name: SNAP25 C.elegans
 Cat. No.: GP24624
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Super-Protein; SUP; RIC4; SEC9; SNAP; RIC-4; SNAP25; SNAP-25; Synaptosomal-associated protein 25; Synaptosomal-associated 25 kDa protein; FLJ23079; bA416N4.2; dj1068F16.2. | | |
| Amino Acid Sequence | MSGDDDIPEG LEAINLKMNA TTDDSLESTR RMLALCEESK EAGIKTLVML DDQGEQLERCEGALDTINQD MKEAEDHLKG MEKCCGLCVL PWNKTDDFEK TEFAKAWKKD DDGGVISDQPRITVGDSSMG PQGGYITKIT NDAREDEMDE NVQQVSTMVG NLRNMAIDMS TEVSNQNRQL DRIHDKAQSN EVRVESANKR AKNLITK. | | |
| Formulation | The protein contains 20mM Tris-HCl pH7.5, 50mM NaCl, 5mM DTT, 1mM EDTA and 10% Glycerol. | | |

Introduction

Synaptic vesicle membrane docking and fusion is mediated by SNAREs (soluble N-ethylmaleimide-sensitive factor attachment protein receptors) located on the vesicle membrane (v-SNAREs) and the target membrane (t-SNAREs). The assembled v-SNARE/t-SNARE complex consists of a bundle of four helices, one of which is supplied by v-SNARE and the other three by t-SNARE. For t-SNAREs on the plasma membrane, the protein syntaxin supplies one helix and the protein encoded by this gene contributes the other two. Therefore, SNAP25 product is a presynaptic plasma membrane protein involved in the regulation of neurotransmitter release. The synaptosomal-associated protein (SNAP-25) is an essential component of the core complex that mediates presynaptic vesicle trafficking. Thus, SNAP-25 is directly involved in the release of neurotransmitters.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Recombinant C.elegans SNAP-25 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 207 amino acids and having a molecular mass of 23kDa. SNAP-25 gene was amplified by PCR from C.elegans and cloned into an E. coli expression vector. SNAP-25 was purified by using conventional chromatography techniques.

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