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California Bioscience

Product Datasheet

Product Name	Synaptosomal-associated protein 25kDa C.elegans Recombinant
Cata No	CB5001017
Source	*Escherichia Coli.*
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.

Description

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.
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.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

The protein contains 20mM Tris-HCl pH7.5, 50mM NaCl, 5mMDTT, 1mM EDTA and 10% Glycerol.

Stability

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

Sequence

MSGDDDIPEG LEAINLKMNA TTDDSLESTR RMLALCEESK EAGIKTLVML DDQGEQLERCEGALDTINQD MKEAEDHLKG MEKCCGLCVL PWNKTDDFEK TEFAKAWKKD DDGGVISDQPRITVGDSSMG PQGGYITKIT NDAREDEMDE NVQQVSTMVG NLRNMAIDMS TEVSNQNRQL DRIHDKAQSN EVRVESANKR AKNLITK

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