

## SNAP25

## Recombinant Synaptosomal-associated protein 25 kDa C. elegans

Catalog No. CSI13013 Quantity: 10 µg

CSI13014 50 μg CSI13015 1.0 mg

Alternate Names: Super-Protein, SUP, RIC4, SEC9, SNAP, RIC-4, SNAP-25, SNAP-25, Synaptosomal-

associated protein 25, Synaptosomal-associated 25 kDa protein

**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 23 kDa. SNAP-25 gene was amplified by PCR from C.elegans and cloned into an *E. coli* 

expression vector.

Physical Appearance: Sterile filtered colorless solution.

**Gene ID:** 6616

Source: E. coli

Molecular Weight: 23 kDa

Formulation: The protein contains 20 mM Tris-HCl, pH7.5 + 50 mM NaCl + 5 mM DTT + 1 mM EDTA

and 10% Glycerol.

**Purity:** Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Purified:** SNAP-25 was purified by using conventional chromatography techniques.

Amino Acid Sequence: MSGDDDIPEG LEAINLKMNA TTDDSLESTR RMLALCEESK EAGIKTLVML

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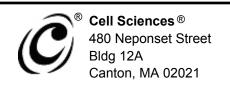
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DDQGEQLERCEGALDTINQD MKEAEDHLKG MEKCCGLCVL PWNKTDDFEK TEFAKAWKKD DDGGVISDQPRITVGDSSMG PQGGYITKIT NDAREDEMDE NVQQVSTMVG NLRNMAIDMS TEVSNQNRQL DRIHDKAQSN EVRVESANKR

E-mail: <u>info@cellsciences.com</u>
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AKNLITK.





**Storage & Stability:** Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C 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.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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