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# 32-4874: Recombinant Synaptosomal-associated protein 25kDa, C.elegans

**Alternative Name :** 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

Source : Escherichia Coli. 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. 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.

## Product Info

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| **Amount :** | 50 µg |
| **Purification :** | Greater than 95.0% as determined by SDS-PAGE. |
| **Content :** | The protein contains 20mM Tris-HCl pH7.5, 50mM NaCl, 5mM DTT, 1mM EDTA and 10% Glycerol. |
| **Storage condition :** | 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. |
| **Amino Acid :** | MSGDDDIPEG LEAINLKMNA TTDDSLESTR RMLALCEESK EAGIKTLVML DDQGEQLERCEGALDTINQD MKEAEDHLKG MEKCCGLCVL PWNKTDDFEK TEFAKAWKKD DDGGVISDQPRITVGDSSMG PQGGYITKIT NDAREDEMDE NVQQVSTMVG NLRNMAIDMS TEVSNQNRQL DRIHDKAQSN EVRVESANKR AKNLITK. |

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