



## Product Datasheet

<b>Product Name</b>	Synaptosomal-associated protein 25 Human Recombinant
<b>Cata No</b>	CB501184
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	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. SNAP25 Human Recombinant fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 226 amino acids and having a molecular mass of 25.4 kDa.

### 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 solution contains 20mM Tris-HCl pH7.5, 2mM EDTA, 50mM NaCl and 1mM DTT.

### Stability

SNAP25 although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### Sequence

MGSSHHHHHH SSGLVPRGSH MAEDADMRNE  
LEEMQRRADQ LADESLESTR RMLQLVEESK  
DAGIRTLVML DEQGQQLERI EEGMDQINKD  
MKEAEKNLTD LGKFCGLCVC PCNKLKSSDA  
YKKAWGNNQD GVVASQPARV VDEREQMAIS  
GGFIRRV TND ARENEMDENL EQVSGIIGNL  
RHMALDMGNE IDTQNRQIDR IMEKADSNKT  
RIDEANQRAT KMLGSG.