



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Recombinant Human Synaptosomal-Associated Protein 25

**Catalog No.**  
228-11439

**Source**  
Escherichia Coli.

### **Synonyms:**

Super-Protein, SUP, RIC4, SEC9, SNAP, RIC-4, SNAP25, SNAP-25.

### **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.

### **Description:**

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

### **Formulation:**

The protein solution (1mg/ml) 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.**

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Amino Acid Sequence:***

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

### ***Purity:***

Greater than 95.0% as determined by:

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

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