

# Recombinant Human SNAP-25 Protein

Catalog No.: RP02862 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	6616	P60880-1

### Tags

N-His

### Synonyms

Synaptosomal-associated protein 25; Super protein (SUP); SUP; Synaptosomal-associated 25 kDa protein; SNAP25; SNAP; SNAP-25b

## Product Information

Source	Purification
E. coli	>90% as determined by SDS-PAGE

Calculated MW	Observed MW
24.8 kDa	28 kDa

### Endotoxin

Please contact us for more information.


### Formulation

Lyophilized from sterile PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Synaptosomal-associated protein 25, also known as Super protein, Synaptosomal-associated 25 kDa protein, SNAP25 and SNAP, is a cytoplasm and cell membrane protein that belongs to the SNAP-25 family. SNAP25 / SUP contains 2 t-SNARE coiled-coil homology domains. SNAP25 / SUP is a membrane bound protein anchored to the cytosolic face of membranes via palmitoyl side chains in the middle of the molecule. SNAP25 / SUP protein is a component of the SNARE complex, which is proposed to account for the specificity of membrane fusion and to directly execute fusion by forming a tight complex that brings the synaptic vesicle and plasma membranes together. SNAP25 / SUP is a Q-SNARE protein contributing two  $\alpha$ -helices in the formation of the exocytotic fusion complex in neurons where it assembles with syntaxin-1 and synaptobrevin. SNAP25 / SUP is involved in the molecular regulation of neurotransmitter release. It may play an important role in the synaptic function of specific neuronal systems. SNAP25 / SUP associates with proteins involved in vesicle docking and membrane fusion. SNAP25 / SUP regulates plasma membrane recycling through its interaction with CENPF. SNAP25 / SUP inhibits P/Q- and L-type voltage-gated calcium channels located presynaptically and interacts with the synaptotagmin C2B domain in  $Ca^{2+}$ -independent fashion. In glutamatergic synapses SNAP25 / SUP decreases the  $Ca^{2+}$  responsiveness, while it is naturally absent in GABAergic synapses.

## Basic Information

### Description

Recombinant Human SNAP-25 Protein is produced by E. coli expression system. The target protein is expressed with sequence (Met 1-Gly 206) of human SNAP-25 (Accession #NP\_001309832.1) fused with a His tag at the N-terminus.

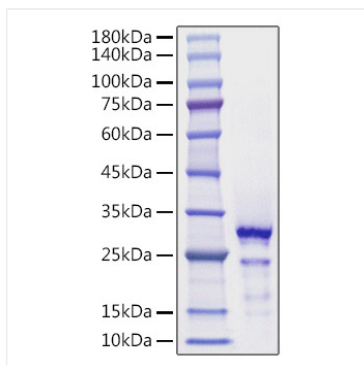
### Bio-Activity

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human SNAP-25 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 28 kDa.