

RP02862

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Recombinant Human SNAP-25 Protein

Catalog No.: RP02862 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
E. coli	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.

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



www.abclonal.com

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 α -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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

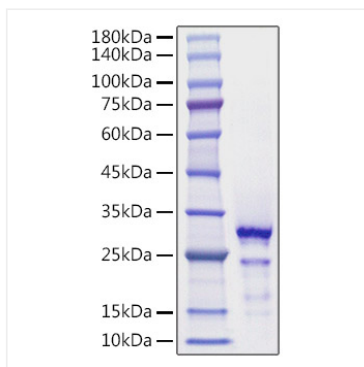
Store at $-20^{\circ}C$. Store the lyophilized protein at $-20^{\circ}C$ to $-80^{\circ}C$ up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at $-20^{\circ}C$ for 3 months, at $2-8^{\circ}C$ for up to 1 week.

Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Human SNAP-25
Protein was determined by SDS-
PAGE under reducing conditions with
Coomassie Blue.