Recombinant Human SNAP-25 Protein

Catalog No.: RP02862

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Sequence Information

Species
Human

Gene ID
6616

Swiss Prot
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
E. coli

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
24.8 kDa

Observed MW
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 Ca2+-independent fashion. In glutamatergic synapses SNAP25 / SUP decreases the Ca2+ 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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

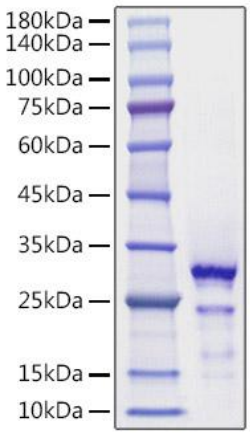
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



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