



Recombinant Protein Technical Manual
Recombinant Human SNAP25/SUP Protein (His Tag)
RPES0927

Product Data:

Product SKU: RPES0927

Size: 50µg

Species: Human

Expression host: E. coli

Uniprot: P60880

Protein Information:

Molecular Mass: 24.8 kDa

AP Molecular Mass: 28 kDa

Tag: N-His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: bA416N4.2;dJ1068F16.2;RIC-4;RIC4;SEC9;SNAP;SNAP-25

Immunogen Information:

Sequence: Met 1-Gly 206

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 which 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 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.