

## SNAP25 Protein, Human (His)

Cat. No.:	HY-P73634
Synonyms:	Synaptosomal-associated protein 25; SNAP-25; SUP; SNAP
Species:	Human
Source:	E. coli
Accession:	P60880 (M1-G206)
Gene ID:	6616
Molecular Weight:	Approximately 28 kDa

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

### DESCRIPTION

#### Background

SNAP25, a t-SNARE integral to the molecular orchestration of neurotransmitter release, assumes a pivotal role in synaptic function within specific neuronal systems. Forming associations with proteins involved in vesicle docking and membrane fusion, SNAP25 intricately regulates plasma membrane recycling through interaction with CENPF. Its modulatory influence extends to the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1 in pancreatic beta cells. As part of the SNARE core complex, comprised of SNAP25, VAMP2, and STX1A, it constitutes the fundamental catalytic machinery for complex neurotransmitter release. Recruitment to the SNARE complex is facilitated by the binding of STX1A to STXBP1. Additionally, SNAP25 participates in diverse complexes involving SYT1, SV2B, syntaxin-1, CPLX1, and BLOC1S6. Interactions with HSC70, SYT9, DNAJC5, CENPF, EQTN, HGS, KCNB1, OTOF, RIMS1, SNAPIN, STXBP6, TRIM9, ZDHHC13, ZDHHC17, PLCL1, PRRT2, SNCA, PRPH2, ROM1, and STX3 further underscore its intricate molecular engagements, highlighting its multifaceted contributions to cellular processes and signaling pathways.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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