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SNAP25 Human
RECOMBINANT PROTEIN

Recombinant Human Synaptosomal-associated protein 25

Catalog Number: PRP-573PRO
Quantity: 50 micrograms, 1 milligram
Format: Sterile-filtered colorless solution containing 1X PBS and 1mM EDTA
Host: *E. coli*

Background:

Synaptic vesicle membrane docking and fusion is mediated by SNAREs (soluble N-ethylmaleimide-sensitive factor attachment protein receptors) located on the vesicle membrane (v-SNAREs) and the target membrane (t-SNAREs). The assembled v-SNARE/t-SNARE complex consists of a bundle of four helices, one of which is supplied by v-SNARE and the other three by t-SNARE. For t-SNAREs on the plasma membrane, the protein syntaxin supplies one helix and the protein encoded by this gene contributes the other two. Therefore, the SNAP25 product is a presynaptic plasma membrane protein involved in the regulation of neurotransmitter release. The synaptosomal-associated protein (SNAP-25) is an essential component of the core complex that mediates presynaptic vesicle trafficking. Thus, SNAP-25 is directly involved in the release of neurotransmitters.

Specificity and Preparation:

Human Recombinant SNAP25 is fused to N-terminal His-Tag, produced in E.Coli, and is a single, non-glycosylated polypeptide chain containing 226 amino acids and having a molecular mass of 25.4 kDa. It is a Sterile-filtered colorless solution containing 20mM Tris-HCl pH7.5, 2mM EDTA, 50mM NaCl and 1mM DTT. Purity is >95.0% as determined by RP-HPLC and SDS-PAGE.

Usage and Storage:

SNAP25, although stable at 4°C for 4 weeks, should be stored desiccated below -18°C. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freezing and thawing. This material is provided for LABORATORY RESEARCH USE ONLY.

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