
Product Data Sheet

Product Name: SNPH Human
 Cat. No.: GP24634
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	KIAA0374; MGC46096; bA314N13.5; SNPH; Syntaphilin.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAMSLPGSRR TSAGSRRRTS PPVSVRDAYG TSSLSSSSNS GSYKGS DSSP TPRRSMKYTL CSDNHGIKPPTPEQYLTP LQ QKEVCIRHLK ARLKDTQDRL QDRDTEIDDL KTQLSRMQED WIEEECHRVE AQLALKEARK EIKQLKQVID TVKNNLIDKDKGLQKYFVDI NIQNKKLETL LHSMEVAQNG MAKEDGTGES AGGSPARSLT RSSTYTKLSD PAVCGDRQPG DPSSGSAEDG AD SGFAAADDTL SRTDALEA SLLSSGVDC GTEETSLHSS FGLGPRFPAS NTYEKLLCGM EAGVQASCMQ ERAIQ TDFVQ YQPDLD TILE KVTQAQVCGTD PESGDRCP E LDAHPSGPRD PNSAVVVTVG DELEAPEPIT RGPTPQRPGA NPNPGQSVSV VCPMEEEEEEA AVAEKEPKSY WSRH.		
Formulation	The Syntaphilin protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.		

Introduction

Syntaxin-1, synaptobrevin, and SNAP25 cooperate to form the SNARE complex, which is needed for synaptic vesicle docking and fusion. SNPH is a neuron-specific protein originally characterized as a binding partner of syntaxin-1. SNPH participates with SNAP25 for the binding to Syntaxin-1 and prevents the construction of the SNARE core complex, thus managing free syntaxin-1 availability for the assembly of the SNARE complex and potentially regulating synaptic vesicle exocytosis. Expression of Syntaphilin appears to be brain-specific. SNPH is an inhibitor of both SNARE-based fusion and dynamin-mediated endocytosis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer.

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SNPH Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 444 amino acids (1-424) and having a molecular mass of 48.2 kDa. The SNPH is fused to 20 amino acid His-Tag at N-terminus and purified by standard chromatography techniques.

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