



## Product Datasheet

<b>Product Name</b>	Syntaphilin Human Recombinant
<b>Cata No</b>	CB501157
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	KIAA0374, MGC46096, bA314N13.5, SNPH, Syntaphilin.

### Description

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.

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.

### Physical Appearance

Sterile Filtered colorless solution.

### Purity

Greater than 90.0% as determined by SDS-PAGE

### Formulation

The Syntaphilin protein solution contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.

### Stability

SNPH although stable at 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### Sequence

**MGSSHHHHH SSGLVPRGSH** MAMSLPGSRR  
TSAGSRRRTS PPVSVRDAYG TSSLSSSSNS  
GSYKGS DSSP TPRRSMKYTL  
CSDNHGIKPPTPEQYLTP LQ QKEVCIRHLK  
ARLKDTQDRL QDRDTEIDDL KTQLSRMQED  
WIEEECHRVE AQLALKEARK EIKQLKQVID  
TVKNNLIDKDKGLQKYFVDI NIQNKKLETL  
LHSMEVAQNG MAKEDGTGES AGGSPARSLT  
RSSTYTKLSD PAVCGDRQPG DPSSGSAEDG  
ADSGFAAADD  
TLSRDALEA SLLSSGVDC GTEETSLHSS  
FGLGPRFPAS NTYEKLLCGM EAGVQASCMQ  
ERAIQTDFVQ YQPDLDTILE  
KVTQAQVCGTDPESGDRCPE LDAHPSGPRD  
PNSAVVTVG DELEAPEPIT RGPTPQRPGA  
NPNPGQSVSV VCPMEEEEEEA AVAEKEPKSY  
WSRH.

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