

## SNPH Human

**Description:** 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.

**Catalog #:** PRPS-552

For research use only.

**Synonyms:** KIAA0374, MGC46096, bA314N13.5, SNPH, Syntaphilin.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAMSLPGSRR TSAGSRRRTS  
PPVSVRDAYG TSSLSSSSNS GSYKGSDDSP TPRRSMKYTL CSDNHGKPPTPEQYLTPLQ  
QKEVCIRHLK ARLKDTQDRL QDRDTEIDDL KTQLSRMQED WIEEECHRVE AQLALKEARK  
EIKQLKQVID TVKNNLIDKDKGLQKYFVDI NIQNKKLETL LHSMEVAQNG MAKEDGTGES  
AGGSPARSLT RSST

**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 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.

**Usage:**

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**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 Syntaphilin appears to be brain-specific. SNPH is an inhibitor of both SNARE-based fusion and dynamin-mediated endocytosis.

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