



Recombinant Protein Technical Manual

Recombinant Human STMN1 Protein (His Tag)

RPES0203

Product Data:

Product SKU: RPES0203

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P16949

Protein Information:

Molecular Mass: 18.4 kDa

AP Molecular Mass: 18 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Stathmin; Leukemia-Associated Phosphoprotein p18; Metablastin; Oncoprotein 18; Op18; Phosphoprotein p19; pp19; ProsoLin; Protein Pr22; pp17; STMN1; C1orf215; LAP18; OP18

Immunogen Information:

Sequence: Ala2-Asp149

Background:

Stathmin (STMN1) is a ubiquitous cytosolic phosphoprotein which belongs to the Stathmin family. STMN1 is expressed in many tissues, with the highest expression in the brain, spinal cord, and cerebellum. It can also be expressed in the colon, ovary, placenta, uterus, and trachea. STMN1 participates in the regulation of the microtubule filament structure by destabilizing microtubules. STMN1 promotes the disassembly of microtubules and prevents assembly. STMN1 is involved in the control of the learned and innate fear. STMN1 is an intracellular relay integrating regulatory signals of the cellular environment and as an Oncoprotein in regulation of the cell cycle. Phosphorylation at Ser6 may be required for axon formation during neurogenesis. Mutation in STMN1 effects cell homeostasis that may lead to tumorigenicity.