

Recombinant Human Stathmin/STMN1 Protein

Catalog No.: RP02138 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3925	P16949

Tags

C-His

Synonyms

C1orf215; LAP18; Lag; OP18; PP17; PP19; PR22;
SMN;STMN1;LAP18;Lag;OP18;PP17;PP19; PR22;SMN;stathmin

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS-PAGE.

Calculated MW	Observed MW
18.37 kDa	20 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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 Ser-16 may be required for axon formation during neurogenesis. Mutation in STMN1 effects cell homeostasis that may lead to tumorigenicity.

Basic Information

Description

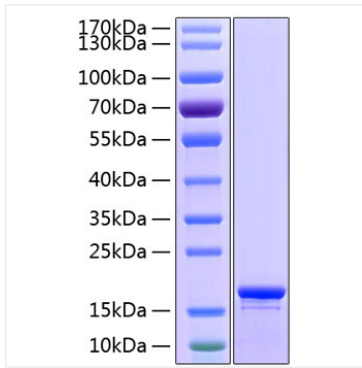
Recombinant Human Stathmin/STMN1 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Ala2-Asp149) of human Stathmin (Accession #P16949) fused with a 6xHis tag at the C- terminus.

Bio-Activity

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Stathmin/STMN1
Protein was determined by SDS-PAGE with
Coomassie Blue, showing a band at 18kDa.