

Stathmin Protein, Human (C-His)

Cat. No.:	HY-P71121
Synonyms:	Stathmin; Leukemia-Associated Phosphoprotein p18; Metablastin; Oncoprotein 18; Op18; Phosphoprotein p19; pp19; Prosolin; Protein Pr22; pp17; STMN1; C1orf215; LAP18; OP18
Species:	Human
Source:	E. coli
Accession:	P16949 (A2-D149)
Gene ID:	3925
Molecular Weight:	Approximately 20.0 kDa

PROPERTIES

AA Sequence	<p>A S S D I Q V K E L E K R A S G Q A F E L I L S P R S K E S V P E F P L S P P K</p> <p>K K D L S L E E I Q K K L E A A E E R R K S H E A E V L K Q L A E K R E H E K E</p> <p>V L Q K A I E E N N N F S K M A E E K L T H K M E A N K E N R E A Q M A A K L E</p> <p>R L R E K D K H I E E V R K N K E S K D P A D E T E A D</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The Stathmin Protein plays a crucial role in regulating the microtubule filament system by actively destabilizing microtubules, thereby preventing their assembly and promoting disassembly. The phosphorylation of Stathmin at Ser-16 may be a key requirement for axon formation during neurogenesis, emphasizing its significance in neuronal development. Beyond its role in cellular architecture, Stathmin is implicated in the control of both learned and innate fear, indicating its potential involvement in complex behavioral processes. The protein binds to two alpha/beta-tubulin heterodimers, forming interactions critical for its microtubule-regulating functions. Additionally, Stathmin interacts with KIST, further expanding its network of molecular associations and suggesting its involvement in diverse cellular processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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