

Product Name: Recombinant Human Stathmin (C-6His)
Catalog #: PEH1571

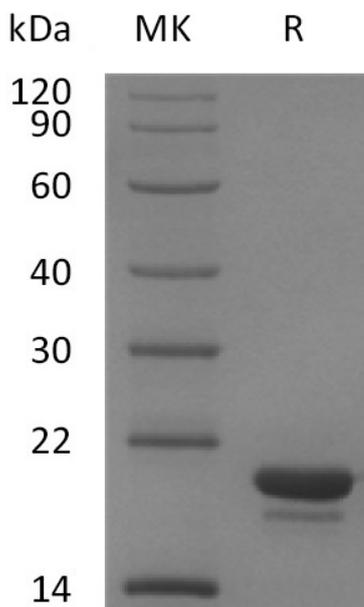


Summary

Name	Stathmin/STMN1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Stathmin is produced by our E.coli expression system and the target gene encoding Ala2-Asp149 is expressed with a 6His tag at the C-terminus.
Accession #	P16949
Host	E.coli
Species	Human
Predicted Molecular Mass	18.37 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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Alternative Names

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

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.

Note

For Research Use Only , Not for Diagnostic Use.