



## Synonym

STMN1, Stathmin, C1orf215, LAP18, OP18

## Source

Human Stathmin 1, His Tag(ST1-H5149) is expressed from E. coli cells. It contains AA Ala 2 - Asp 149 (Accession # [NP\\_981946](#)).

Predicted N-terminus: Met

## Molecular Characterization

Poly-his

Stathmin 1(Ala 2 - Asp 149)  
NP\_981946

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 18.1 kDa. The protein migrates as 18 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

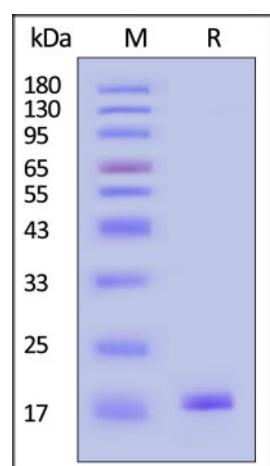
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human Stathmin 1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Background

Stathmin (STMN1), a member of the stathmin family, is also known as Leukemia-associated phosphoprotein p18, Oncoprotein 18 (Op18), Phosphoprotein p19 (pp19), Protein Pr22 and pp17, which contains one SLD (stathmin-like) domain. The function of STMN1 as an important regulatory protein of microtubule dynamics has been well-characterized. Stathmin (STMN1) interacts with two molecules of dimeric  $\alpha,\beta$ -tubulin to form a tight ternary complex called the T2S complex. One mole of STMN1 binds to two moles of tubulin dimers through the stathmin-like domain (SLD). When STMN1 sequesters tubulin into the T2S complex, tubulin

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## Human Stathmin 1 / STMN1 Protein, His Tag

Catalog # ST1-H5149



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becomes non-polymerizable. Without tubulin polymerization, there is no microtubule assembly. STMN1 also promotes microtubule disassembly by acting directly on the microtubule ends.

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