

Recombinant human Stathmin-1/STMN1 protein

Catalog Number: ATGP0279

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-149aa

UniProt No.

P16949

NCBI Accession No.

NP_981944

Alternative Names

STMN1, Stathmin1, Stathmin, SMN, Protein Pr22, Prosolin, PR22, PP19, Phosphoprotein p19, pp17, Phosphoprotein 19, p19, p18, OP18, Oncoprotein 18, Metablastin, Leukemia associated phosphoprotein p18, LAP18, Lag

PRODUCT SPECIFICATION

Molecular Weight

19.4 kDa (169aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Stathmin is a ubiquitous phosphoprotein proposed to play a general role as an intracellular relay integrating diverse regulatory signals of the cellular environment. Also, Stathmin protein is involved in the regulation of the microtubule filament system by destabilizing microtubules. It prevents assembly and promotes disassembly of microtubules. The role of Stathmin in regulation of the cell cycle causes it to be an oncoprotein (Oncoprotein 18,

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op18). When Stathmin is mutated and not functioning properly, this protein can cause uncontrolled cell proliferation. Recombinant human Stathmin protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MASSDIQVKE LEKRASGQAF ELILSPRSKE SVPEFPLSPP KKKDLSLEEI QKKLEAAEER
RKSHEAEVLK QLAEKREHEK EVLQKAIEN NNFSKMAEEK LTHKMEANKE NREAQMAAKL ERLREKDKHI EEVRKNKESK
DPADETEAD

General References

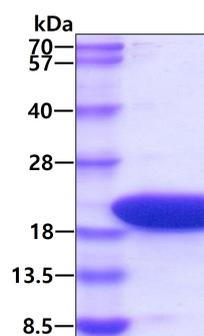
Maucuer A., et al. (1990). FEBS Lett. 264(2):275-8

Sobel A., et al. (1991). Trends Biochem Sci. 16(8):301-5

Steinmetz MO., et al. (2007). J Struct Biol. 158(2):137-47

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.