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

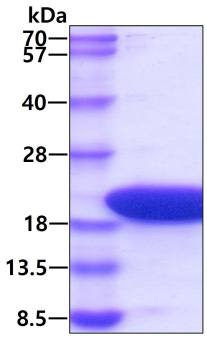
<MGSSHHHHHH SSGLVPRGSH> MASSDIQVKE LEKRASGQAF ELILSPRSKE SVPEFPLSPP KKKDLSLEEI QKKLEAAEER RKSHEAEVLK QLAEKREHEK EVLQKAIEEN NNFSKMAEEK LTHKMEANKE NREAQMAAKL ERLREKDKHI EEVRKNKESK DPADETEAD

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



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