

## STMN1 Human

**Description:** Recombinant Human Stathmin-1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 169 amino acids (1-149 a.a) and having a molecular mass of 19.4 kDa. STMN1 is fused to 20 amino acid His Tga at N-Terminus and purified by conventional chromatography techniques.

**Catalog #:** PRPS-683

For research use only.

**Synonyms:** Metablastin, Phosphoprotein p19, Oncoprotein p18, PP17, PP19, PR22, Prosolin, C1orf215, FLJ32206, MGC138869, MGC138870, STMN1, Stathmin, Leukemia-associated phosphoprotein p18, Op18, Protein Pr22, LAP18, Lag, SMN.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MASSDIQVKE LEKRASGQAF  
ELILSPRSKE SVPEFPLSP KKKDLSLEEI QKKLEAAEER RKSHEAEVLK QLAEKREHEK  
EVLQKAIEEN NNFSKMAEEK LTHKMEANKE NREAQMAAKL ERLREKDKHI EEVRKNKESK  
DPADETEAD.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The STMN1 protein solution contains 20mM Tris-HCl, pH-8 and 10% Glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

STMN1 takes part in the regulation of the microtubule filament structure by destabilizing microtubules. STMN1 promotes the disassembly of microtubules and prevents assembly. STMN1 is a ubiquitous cytosolic phosphoprotein which functions as an intracellular relay integrating regulatory signals of the cellular environment. Stathmin functions as an Oncoprotein in regulation of the cell cycle. Stathmin mutation results in uncontrolled cell proliferation. Stathmin expression associates with cervical carcinogenesis and tumor progression, thus Stathmin is an important prognostic marker in cervical carcinoma. STMN1, takes part in the prevenative progression of ER-positive primary in breast cancer. Somatic mutation in STMN1 effects cell homeostasis that leads to tumorigenicity.

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