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## Product Data Sheet

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Product Name: STMN1 Human  
 Cat. No.: GP24722  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MASSDIQVKE LEKRASGQAF ELILSPRSKE SVPEFPLSPP KKKDLSLEEI QKKLEAAEER RKSHEAEVLK QLAEKREHEK EVLQKAIEEN NNFSKMAEEK LTHKMEANKE NREAQMAAKL ERLREKDKHI EEVRKNKESK DPADETEAD.		
Formulation	The STMN1 protein solution contains 20mM Tris-HCl, pH-8 and 10% Glycerol.		

### 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Background

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.

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