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**Product Data Sheet**


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Product Name: TPPP Human  
 Cat. No.: GP24867  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tubulin polymerization-promoting protein; TPPP; 25 kDa brain-specific protein; TPPP/p25; p24; p25-alpha; TPPP1; p25; p25alpha.		
Amino Acid Sequence	MKHHHHHHASMAKAKPAKA ANRTPPKSPG DPSKDRAAKR LSLESEGAGE GAAASPELSA LEEAFRRFAV HGDARATGRE MHGKNWSKLC KDCQVIDGRN VTVDVDIVF SKIKGKSCRT ITFEQFQEAL EELAKKRFKD KSSEEAVREV HRLIEGKAPI ISGVTKAISS PTVSRLTDTT KFTGSHKERF DPSGKKGKGA GRVDLVDESG YVSGYKHAGT YDQKVQGGK.		
Solubility	It is recommended to add 200 $\mu$ l deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. TPPP is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	TPPP filtered (0.4 $\mu$ m) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.		

**Introduction**

Tubulin Polymerization Promoting Protein (TPPP) probably plays a part in the polymerization of tubulin into microtubules, as well as in microtubule bundling and the stabilization of existing microtubules, thus maintaining the integrity of the microtubule network. TPPP may also have a role in mitotic spindle assembly and nuclear envelope breakdown. TPPP/p235 level in cerebrospinal fluid is considerably higher in multiple sclerosis patients.

**Stability**

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a

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limited period of time; it does not show any change after two weeks at 4°C .

### Background

TPPP Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 229 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 24.9kDa (calculated).

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