

## TPPP3 Protein, Human (His)

Cat. No.:	HY-P77254
Synonyms:	Tubulin polymerization-promoting protein family member 3; TPPP/p20; CGI-38
Species:	Human
Source:	E. coli
Accession:	Q9BW30 (M1-K176)
Gene ID:	51673
Molecular Weight:	Approximately 19 kDa

### PROPERTIES

AA Sequence	M A A S T D M A G L      E E S F R K F A I H      G D P K A S G Q E M      N G K N W A K L C K D C K V A D G K S V      T G T D V D I V F S      K V K G K S A R V I      N Y E E F K K A L E E L A T K R F K G K      S K E E A F D A I C      Q L V A G K E P A N      V G V T K A K T G G A V D R L T D T S R      Y T G S H K E R F D      E S G K G K G I A G      R Q D I L D D S G Y V S A Y K N A G T Y      D A K V K K
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	TPPP3, a microtubule-associated protein, assumes a pivotal role as a regulator of microtubule dynamics, exerting its influence through microtubule bundling activity. Its essential involvement extends to critical biological processes, notably embryo implantation and decidualization, suggesting a role in reproductive events. The impact on embryo implantation implies a potential regulatory function linked to beta-catenin, a key signaling molecule in cellular processes. Moreover, TPPP3's role in decidualization reinforces its significance in orchestrating cellular events, particularly through its influence on beta-catenin signaling. These findings underscore TPPP3 as a versatile player in cellular dynamics, with implications for fundamental processes in development and reproduction.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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