

## TCTP/TPT1 Protein, Human

Cat. No.:	HY-P700615
Synonyms:	Translationally-controlled tumor protein; Fortilin; HRF; p23
Species:	Human
Source:	E. coli
Accession:	P13693 (M1-C172)
Gene ID:	7178
Molecular Weight:	19.6 kDa

### PROPERTIES

AA Sequence	<p>M I I Y R D L I S H    D E M F S D I Y K I    R E I A D G L C L E    V E G K M V S R T E</p> <p>G N I D D S L I G G    N A S A E G P E G E    G T E S T V I T G V    D I V M N H H L Q E</p> <p>T S F T K E A Y K K    Y I K D Y M K S I K    G K L E E Q R P E R    V K P F M T G A A E</p> <p>Q I K H I L A N F K    N Y Q F F I G E N M    N P D G M V A L L D    Y R E D G V T P Y M</p> <p>I F F K D G L E M E    K C</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
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.
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	<p>TCTP/TPT1, a multifaceted protein, assumes a crucial role in diverse cellular processes. It engages in calcium binding and contributes to microtubule stabilization, indicating its significance in maintaining cellular structure and function. Moreover, TCTP/TPT1 acts as a negative regulator of TSC22D1-mediated apoptosis by interacting with and destabilizing the TSC22D1 protein. The protein forms homodimers and interacts with STEAP3, suggesting its involvement in various protein-protein interactions that orchestrate cellular pathways. The interaction with TSC22D1 highlights its role in modulating apoptotic processes, emphasizing the multifunctional nature of TCTP/TPT1 in cellular homeostasis.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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