

TCTP/TPT1 Protein, Human (His)

Cat. No.:	HY-P77224
Synonyms:	Translationally-controlled tumor protein; Fortilin; HRF; p23
Species:	Human
Source:	E. coli
Accession:	P13693 (M1-C172)
Gene ID:	7178
Molecular Weight:	Approximately 23 kDa

PROPERTIES

AA Sequence	<pre> 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 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 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 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 I F F K D G L E M E K C </pre>
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 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 ₂ 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	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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA