

## MTCP1 Protein, Human (His, Strep)

Cat. No.:	HY-P701857
Synonyms:	MTCP1; Protein p13 MTCP-1; p13MTCP1; Mature T-cell proliferation-1 type B1; MTCP-1 type B1
Species:	Human
Source:	E. coli
Accession:	P56278 (M1-D107)
Gene ID:	4515
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	MTCP1 protein plays a crucial role in promoting the phosphorylation and activation of AKT1 and AKT2, two key members of the AKT family. It accomplishes this through specific interactions with both AKT1 and AKT2, primarily through their PH (pleckstrin homology) domains. Interestingly, MTCP1 does not exhibit any interaction with AKT3, indicating a selective binding preference. By facilitating the activation of AKT1 and AKT2, MTCP1 contributes to the regulation of numerous cellular processes, including cell growth, survival, and metabolism. Understanding the specific molecular interactions between MTCP1 and AKT1/2 can provide valuable insights into the intricate mechanisms controlling AKT signaling and its downstream effects on cellular physiology.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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