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Product datasheet for PH301664

TCTP (TPT1) (NM_003295) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TPT1 MS Standard C13 and N15-labeled recombinant protein (NP_003286)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201664
Predicted MW:	19.6 kDa
Protein Sequence:	>RC201664 protein sequence Red=Cloning site Green=Tags(s) MIIYRDLISHDEMFSDIYKIREIADGLCLEVEGKMVSRTEGNIDDSLIGGNASAEGPEGEGTESTVITGV DIVMNHHLQETSFTKEAYKKYIKDYMKSIKGKLEEQRPERVKPFMTGAAEQIKHILANFKNYQFFIGENM NPDGMVALLDYREDGVTPYMIFFKDGLEMEKC TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003286
RefSeq Size:	4649
RefSeq ORF:	516
Synonyms:	HRF; p02; p23; TCTP
Locus ID:	7178
UniProt ID:	P13693, A0A0P1J1R0

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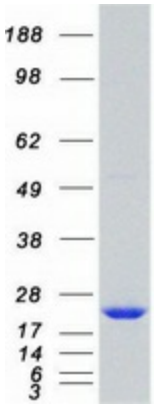
Cytogenetics: 13q14.13

Summary: This gene encodes a protein that is a regulator of cellular growth and proliferation. Its mRNA is highly structured and contains an oligopyrimidine tract (5'-TOP) in its 5' untranslated region that functions to repress its translation under quiescent conditions. The encoded protein is involved in a variety of cellular pathways, including apoptosis, protein synthesis and cell division. It binds to and stabilizes microtubules, and removal of this protein through phosphorylation is required for progression through mitotic and meiotic cell divisions. This gene is known to play a role in carcinogenesis, and is upregulated in some cancer cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2017]

Product images:



Coomassie blue staining of purified TPT1 protein (Cat# [TP301664]). The protein was produced from HEK293T cells transfected with TPT1 cDNA clone (Cat# [RC201664]) using MegaTran 2.0 (Cat# [TT210002]).