

Product datasheet for PH308069

MTMR6 (NM_004685) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MTMR6 MS Standard C13 and N15-labeled recombinant protein (NP_004676)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208069
Predicted MW:	71.8 kDa
Protein Sequence:	>RC208069 representing NM_004685 Red=Cloning site Green=Tags(s)

MEHIRTTKVEQVKLLDRFSTSNKSLTGTLYLTATHLLFIDSHQKETWILHHHIASVEKLALTTSGCPLVI
QCKNFRTVHFIVPRERDCHDIYNLLQLSKQAKYEDLYAFSYNPKQNDSERLQGWQLIDLAEYKRMGVP
NSHWQLSDANRDYKICETYPRELYVPRIASKPIIVGSSKFRSKGRFPVLSYYHQDKEAAICRCSQPLSGF
SARCLEDEHLLQAISKANPVNRYMYVMDTRPKLNAMANRAAGKGYENEDNYSNIRFQFVGIENIHVMRSS
LQKLELVNGTKGLSVNDFYSGLESSGWLRIKAVMDAAVFLAKAITVENASVLVHCSGDGWDRTSQVCSLG
SLLLDSSYRTIKGFMVLIEKDWISFGHKFSERCGQLDGGPKEVSPVFTQFLECVWHLTEQFPQAFEFSEA
FLLQIHEHIHSCQFGNFLGNCQKEREELKLEKTYSLWPFLLDQKKYLNPLYSSESHRFTVLEPNTVSF
NFKFWRNMYHQFDRTLHPRQSVFNIIMNMNEQNKQLEKDIKDLESKIKQRKNKQTDGILTKELLHSVHPE
SPNLKTSLCFKEQTLTPVNDALRTIEGSSPADNRYSEYAEFFSKSEPAVVSLEYGVARMTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

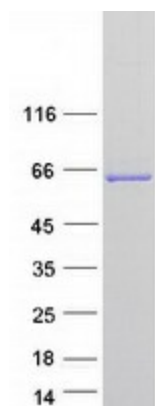
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	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_004676
RefSeq Size:	4201
RefSeq ORF:	1863



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Locus ID:	9107
UniProt ID:	Q9Y217
Cytogenetics:	13q12.13
Summary:	<p>Phosphatase that acts on lipids with a phosphoinositol headgroup (PubMed:19038970, PubMed:22647598). Dephosphorylates phosphatidylinositol 3-phosphate (PtdIns(3)P) and phosphatidylinositol 3,5-bisphosphate (PubMed:19038970, PubMed:22647598) (Probable). Binds with high affinity to phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P₂) but also to phosphatidylinositol 3-phosphate (PtdIns(3)P), phosphatidylinositol 4-phosphate (PtdIns(4)P), and phosphatidylinositol 5-phosphate (PtdIns(5)P), phosphatidic acid and phosphatidylserine (PubMed:19038970). Negatively regulates ER-Golgi protein transport (By similarity). Probably in association with MTMR9, plays a role in the late stages of macropinocytosis by dephosphorylating phosphatidylinositol 3-phosphate in membrane ruffles (PubMed:24591580). Acts as a negative regulator of KCNN4/KCa3.1 channel activity in CD4(+) T-cells possibly by decreasing intracellular levels of phosphatidylinositol 3-phosphate (PubMed:15831468). Negatively regulates proliferation of reactivated CD4(+) T-cells (PubMed:16847315). In complex with MTMR9, negatively regulates DNA damage-induced apoptosis (PubMed:19038970, PubMed:22647598). The formation of the MTMR6-MTMR9 complex stabilizes both MTMR6 and MTMR9 protein levels (PubMed:19038970). [UniProtKB/Swiss-Prot Function]</p>
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism

Product images:



Coomassie blue staining of purified MTMR6 protein (Cat# [TP308069]). The protein was produced from HEK293T cells transfected with MTMR6 cDNA clone (Cat# [RC208069]) using MegaTran 2.0 (Cat# [TT210002]).