

Recombinant Human MTMR7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MTMR7-981H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MTMR7 MS Standard C13 and N15-labeled recombinant protein (NP_004677) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the myotubularin family of tyrosine/dual-specificity phosphatases. The encoded protein is characterized by four distinct domains that are conserved among all members of the myotubularin family: the glucosyltransferase, Rab-like GTPase activator and myotubularins domain, the Rac-induced recruitment domain, the protein tyrosine phosphatases and dual-specificity phosphatases domain and the suppressor of variegation 3-9, enhancer-of-zeste, and trithorax interaction domain. This protein dephosphorylates the target substrates phosphatidylinositol 3-phosphate and inositol 1,3-bisphosphate. A pseudogene of this gene is found on chromosome 5.
Molecular Mass	75.8 kDa
AA Sequence	MEHIRTPKVENVRLVDRVSPKKAALGTLTLTATHVIFVENSPPDARKETWILHSQISTIE KQATTATGCPLLIRCKNFQIIQLIIPQERDCHDVYISLIRLARPVKYEELYCFSFNPMLD KEEREQGWVLIDLSEETRMGLPNHYWQLSDVNRDVRVCDSTPTELYVPKSATAHII VGSSKFRSRRRFPVLSYYYKDNHASICRSSQPLSGFSARCLEDEQMLQAIRKANPG

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SDFVYVVDTRPKLNAMANRAAGKGYENEDNYSNIKFQFIGIENIHVMRNSLQKMLEV
 CELKSPSMSDFLWGLENSGWL RHIAIMDAGIFIAKAVSEEGASVLVHCSDGWDRT
 AQVCSVASLLLDPHYRTLKGFMVLEIKDWISFGHKFNHRYGNLDGDPKEISPVIDQFI
 ECVWQLMEQFPCAFEFNERFLIHQHHIYSCQFGNFLCNSQKERRELKIQERTYSLW
 AHLWKNRADYLNPLFRADHSQTQGT LHLPTTPCNFMYKFWSGMYNRF EKGMQPR
 QSVTDYLM AVKEETQQLEEELEALEERLEKIQKVQLNCTKV KSKQSEPSKHSGFSTS
 DNSIANTPQDYSGNMKSFPSRSPSQGDEDSALILTQDNLKSSDPDLSANS DQESGV
 EDLSCRSPSGGEHAPSEDSGKDRDSDEAVFLTATRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MTMR7 myotubularin related protein 7 [Homo sapiens (human)]

Official Symbol MTMR7

Synonyms MTMR7; myotubularin related protein 7; myotubularin-related protein 7; inositol 1,3-bisphosphate phosphatase; phosphatidylinositol-3-phosphate phosphatase; EC 3.1.3.64

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Gene ID	9108
mRNA Refseq	NM_004686
Protein Refseq	NP_004677
MIM	603562
UniProt ID	Q9Y216
SDS-PAGE	