

## Product datasheet for PH310954

### THEM5 (NM\_182578) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	THEM5 MS Standard C13 and N15-labeled recombinant protein (NP_872384)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210954
Predicted MW:	27.7 kDa
Protein Sequence:	>RC210954 protein sequence Red=Cloning site Green=Tags(s)  MIRRCFQVAARLGHHRGLLEAPRILPRLNPASAFGSSTDSMFSRFLPEKTDLKDYALPNASWCSDMLSLY QEFLEKTKSSGWIKLPSFKSNRDHIRGLKPSGLAVSSDKGDCRIFTRCIQVEGQGFYVIFFQPTQKKS VCLFQPGSYLEGPPGFAHGGSLAAMMDETFSKTAFLAGEGLFTLSLNIRFKNLIPVDSLVMVDVEVDKIE DQKLYMSCIAHSRDQQTVYAKSSGVFLQLQLEEEESPQ  TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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:	<a href="#">NP_872384</a>
RefSeq Size:	1146
RefSeq ORF:	741
Synonyms:	ACOT15
Locus ID:	284486
UniProt ID:	<a href="#">Q8N1Q8</a>

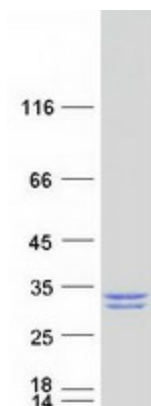


[View online »](#)

Cytogenetics: 1q21.3

**Summary:** Has acyl-CoA thioesterase activity towards long-chain (C16 and C18) fatty acyl-CoA substrates, with a preference for linoleoyl-CoA and other unsaturated long-chain fatty acid-CoA esters (PubMed:22586271). Plays an important role in mitochondrial fatty acid metabolism, and in remodeling of the mitochondrial lipid cardiolipin (PubMed:22586271). Required for normal mitochondrial function (PubMed:22586271).[UniProtKB/Swiss-Prot Function]

**Product images:**



Coomassie blue staining of purified THEM5 protein (Cat# [TP310954]). The protein was produced from HEK293T cells transfected with THEM5 cDNA clone (Cat# [RC210954]) using MegaTran 2.0 (Cat# [TT210002]).