

Product datasheet for PH300854

URM1 (NM_030914) Human Mass Spec Standard

Product data:

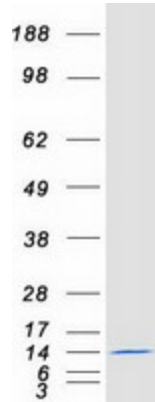
Product Type:	Mass Spec Standards
Description:	URM1 MS Standard C13 and N15-labeled recombinant protein (NP_112176)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200854
Predicted MW:	11.4 kDa
Protein Sequence:	>RC200854 protein sequence Red =Cloning site Green =Tags(s) MAAPLSVEVEFGGGAELLFDGIKKHRVTLPGQEEPWDIRNLLIWIKKNLLKERPELFIQGDSVRPGILVL INDADWELLGELDYQLQDQDSVLFISTLHGG TR TRPLEQKLISEEDLAANDILDYKDDDDKV
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_112176
RefSeq Size:	2650
RefSeq ORF:	303
Synonyms:	C9orf74
Locus ID:	81605
UniProt ID:	Q9BTM9 , A0A024R8C7
Cytogenetics:	9q34.11



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Summary:

Acts as a sulfur carrier required for 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Serves as sulfur donor in tRNA 2-thiolation reaction by being thiocarboxylated (-COSH) at its C-terminus by MOCS3. The sulfur is then transferred to tRNA to form 2-thiolation of mcm(5)S(2)U. Also acts as a ubiquitin-like protein (UBL) that is covalently conjugated via an isopeptide bond to lysine residues of target proteins such as MOCS3, ATPBD3, CTU2, USP15 and CAS. The thiocarboxylated form serves as substrate for conjugation and oxidative stress specifically induces the formation of UBL-protein conjugates.[UniProtKB/Swiss-Prot Function]

Product images:

Coomassie blue staining of purified URM1 protein (Cat# [TP300854]). The protein was produced from HEK293T cells transfected with URM1 cDNA clone (Cat# [RC200854]) using MegaTran 2.0 (Cat# [TT210002]).