

Recombinant Human URM1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. URM1-298H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	URM1 MS Standard C13 and N15-labeled recombinant protein (NP_112176) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Acts as a sulfur carrier required for 2-thiolation of mcm5S2U 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 mcm5S2U. 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.
Molecular Mass	11.4 kDa
AA Sequence	MAAPLSVEVEFGGGAELLFDGIKKHRVTLPGQEPPWDIRNLLIWIKKNLLKERPELFI QGDSVRPGILVLINDADWELLGELDYQLQDQDSVLFISTLHGGTRTRPLEQKLISEED LAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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.

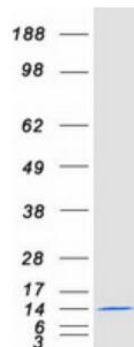
GENE INFORMATION

Gene Name	URM1 ubiquitin related modifier 1 [Homo sapiens (human)]
Official Symbol	URM1
Synonyms	URM1; ubiquitin related modifier 1; C9orf74, chromosome 9 open reading frame 74, ubiquitin related modifier 1 homolog (S. cerevisiae); ubiquitin-related modifier 1 homolog; MGC2668; ubiquitin related modifier 1 homolog; C9orf74; RP11-339B21.4;
Gene ID	81605
mRNA Refseq	NM_030914
Protein Refseq	NP_112176
MIM	612693
UniProt ID	Q9BTM9

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SDS-PAGE

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