Recombinant human URM1 protein

Catalog Number: ATGP0994

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-101aa

UniProt No.
Q9BTM9

NCBI Accession No.
NP_112176

Alternative Names
ubiquitin-related modifier 1 homolog, C9orf74, MGC2668, RP11-339B21.4

PRODUCT SPECIFICATION

Molecular Weight
13.5 kDa (121aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
uRM1 is ubiquitin-related modifier 1 homolog protein that primarily functions in the post-translational modification of proteins by way of the urmylation pathway. In studies with Saccharomyces cerevisiae, it has been found that urm1 covalently binds to its E1 activating enzyme, uba4p, to conjugate alkyl hydroperoxide reductase (Ahp1). It is hypothesized that this complex may then play a role in the oxidative-stress response in mammals. Recombinant human uRM1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

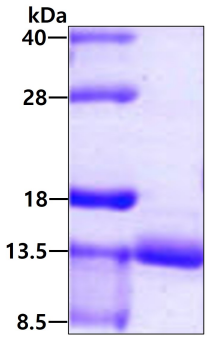
<MGSSHHHHHH SSGLVPRGSH> MAAPLSVEVE FGGGAELLFD GIKKHRVTLP GQEEPWDIRN LLIWIKKNLL KERPELFIQG DSVRPGILVL INDADWELLG ELDYQLQDQD SVLFISTLHG G

General References

Xu J., et al. (2006) Proc Natl Acad Sci u S A. 103(31):11625-30.
Schlieker CD., et al. (2008) Proc Natl Acad Sci u S A. 105(47):18255-60.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.