

## URM1 Human

**Description:** URM1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 121 amino acids (1-101 a.a.) and having a molecular mass of 13.5kDa. URM1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-195

For research use only.

**Synonyms:** Ubiquitin-related modifier 1 homolog, URM1, C9orf74, MGC2668, RP11-339B21.4.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAAPLSVEVE FGGAELLFD  
GIKKHRVTLP GQEEPWDIRN LLIWIKKNLL KERPELFIQG DSVRPGILVL INDADWELLG  
ELDYQLQDQD SVLFISTLHG G.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

The URM1 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 1mM DTT.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

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**Introduction:**

URM1 is ubiquitin-related modifier 1 homolog protein which mainly functions in the post-translational modification of proteins via the urmylation pathway. Urm1 covalently binds to its E1 activating enzyme, Uba4p, to conjugate alkyl hydroperoxide reductase (Ahp1) as determined by studies with *Saccharomyces cerevisiae*. It has been theorized that this complex may then have a role in the oxidative-stress response in mammals.

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