

MATERIAL DATA SHEET**Ubiquitin Mutant K29R/K48R/K63R, *human recombinant***
Cat. # UM-3KTR

Mutation of lysines 29, 48 and 63 to arginine renders ubiquitin unable to form poly-ubiquitin chains via the major known poly-ubiquitination sites. The ubiquitin triple mutant can form an E1-catalyzed active thioester at the C-terminus allowing the molecule to be transferred to the lysines of substrate proteins. Ideal for studies of alternate mono-ubiquitination or poly-ubiquitination sites.

Product Information

Quantity:	1 mg, lyophilized powder
MW:	8.5 kDa
Solubility:	Soluble and stable in aqueous buffers up to 10 mg/ml.
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical concentrations for non rate-limiting support of <i>in vitro</i> conjugation reactions range from 200 μ M-1 mM depending on experimental conditions.
Storage:	Store at -20°C after solubilization in desired buffer. Avoid multiple freeze/thaw cycles.

Literature

References:	Arnason T., <i>et al.</i> (1994) <u>Mol. Cell. Biol.</u> 14 :7876-7883 Baboshina D.V., <i>et al.</i> (1996) <u>J.Biol.Chem.</u> 271 :2823-2831 Chau V., <i>et al.</i> (1989) <u>Science</u> 243 :1576-1583 Finley D., <i>et al.</i> (1994) <u>Mol. Cell. Biol.</u> 14 :5501-5509 Johnson E.S., <i>et al.</i> (1992) <u>EMBO.J</u> 11 :497-5055 Johnson E.S., <i>et al.</i> (1995) <u>J.Biol.Chem.</u> 270 : 17442-17756 Spence J., <i>et al.</i> (1995) <u>Mol. Cell. Biol.</u> 15 :1265-1273 Russel N.S., <i>et al.</i> (2004) <u>Biochemistry</u> 43 :4844-4854
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