

**MATERIAL DATA SHEET****Ubiquitin Mutant K29R, *human recombinant***  
**Cat. # UM-K29R**

Mutation of lysine 29 to arginine renders ubiquitin (Ub) unable to form poly-Ub chains via lysine 29 linkages with other Ub molecules. Ub K29R 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 the reduction in poly-Ub chain length/conjugation rates and determining if poly-Ub chains are K29 linked.

**Product Information**

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

**Use & Storage**

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

**Literature**

<b>References:</b>	Arnason T., <i>et al.</i> (1994) <u>Mol. Cell. Biol.</u> <b>14</b> :7876-7883 Spence J., <i>et al.</i> (1995) <u>Mol. Cell. Biol.</u> <b>15</b> :1265-1273 Russel N.S., <i>et al.</i> (2004) <u>Biochemistry</u> <b>43</b> :4844-4854
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