

**MATERIAL DATA SHEET****Ubiquitin Mutant K6R, *human recombinant*****Cat. # UM-K6R**

Mutation of lysine 6 to arginine renders ubiquitin (Ub) unable to form poly-Ub chains via lysine 6 linkages with other Ub molecules. Ub K6R 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 K6 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 5 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>	Baboshina D.V., <i>et al.</i> (1996) <u>J.Biol.Chem.</u> <b>271</b> :2823-2831 Morris J.R., <i>et al.</i> (2004) <u>Hum. Mol. Genet.</u> <b>13</b> :807-817 Wu-Baer F., <i>et al.</i> (2003) <u>J. Biol. Chem.</u> <b>278</b> :34743-34746
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