

Lot # XXXXX

## MATERIAL DATA SHEET

### His<sub>6</sub>-Ubiquitin Mutant K11R, *human recombinant* Cat. # UM-HK11R

Mutation of lysine 11 to arginine renders ubiquitin (Ub) unable to form poly-Ub chains via lysine 11 linkages with other Ub molecules. Ub K11R 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 K11 linked.

#### Product Information

<b>Quantity:</b>	1 mg, lyophilized powder
<b>MW:</b>	9.3 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 µM-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 Makhatadze G.T., <i>et al.</i> (2003) <u>J. Mol. Biol.</u> <b>327</b> :1135-1148
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