

**MATERIAL DATA SHEET****Ubiquitin Mutant with K11 only, *human recombinant***  
**Cat. # UM-K110**

This ubiquitin mutant contains only a single lysine, K11, with all other lysines mutated to arginine. This mutation renders ubiquitin able to form poly-ubiquitin chains with other ubiquitin molecules only via the K11 lysine.

**Product Information**

<b>Quantity:</b>	1 mg, lyophilized powder
<b>MW:</b>	8.5 kDa
<b>Solubility:</b>	Soluble and stable in 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>	Baboshina D.V., <i>et al.</i> (1996) <i>J.Biol.Chem.</i> <b>271</b> :2823-2831 Makhatadze G.T., <i>et al.</i> (2003) <i>J. Mol. Biol.</i> <b>327</b> :1135-1148
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