

Lot # XXXXX

## MATERIAL DATA SHEET

### His<sub>6</sub>-Ubiquitin Mutant with K33 only, *human recombinant* Cat. # UM-HK330

This ubiquitin mutant contains only a single lysine, K33, with all other lysines mutated to arginine. This mutation renders ubiquitin able to form poly-ubiquitin chains with other ubiquitin molecules only via the K33 lysine.

#### 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 $\mu$ M-1 mM depending on experimental conditions.
<b>Storage:</b>	Store at -20°C solubilization in desired buffer. Avoid multiple freeze/thaw cycles.

#### Literature

<b>References:</b>	Ott D.E., <i>et al.</i> (2000) <i>Virology</i> <b>278</b> :111-121 Spence J., <i>et al.</i> (1995) <i>Mol. Cell. Biol.</i> <b>15</b> :1265-1273
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