

Lot # XXXXX

MATERIAL DATA SHEET

His₆-Ubiquitin Mutant K33R, *human recombinant* Cat. # UM-HK33R

Mutation of lysine 33 to arginine renders ubiquitin (Ub) unable to form poly-Ub chains via lysine 33 linkages with other Ub molecules. Ub K33R 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 K33 linked.

Product Information

Quantity:	1 mg, lyophilized powder
MW:	9.3 kDa
Solubility:	Soluble and stable aqueous buffers up to 5 mg/ml.
Purity:	>95% by SDS-PAGE

Use & Storage

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

Literature

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