

Lot # XXXXX

BostonBiochem

MATERIAL DATA SHEET

His₆-Ubiquitin Mutant K6R, *human recombinant* **Cat. # UM-HK6R**

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 for determining if poly-Ub chains are K6 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 after solubilization in desired buffer. Avoid multiple freeze/thaw cycles.

Literature

References:	Baboshina D.V., <i>et al.</i> (1996) <u>J.Biol.Chem.</u> 271 :2823-2831 Morris J.R., <i>et al.</i> (2004) <u>Hum. Mol. Genet.</u> 13 :807-817 Wu-Baer F., <i>et al.</i> (2003) <u>J. Biol. Chem.</u> 278 :34743-34746
--------------------	--

For Laboratory Research Use Only, Not For Use in Humans