Lot # XXXXX

BostonBiochem

MATERIAL DATA SHEET

Ubiquitin Mutant K48R/K63R, *human recombinant*
Cat. # UM-K4863R

Mutation of lysine residues 48 and 63 to arginine renders ubiquitin unable to form poly-ubiquitin chains via these major known poly-ubiquitination sites. This ubiquitin double mutant can form an E1-catalyzed active thioester at the C-terminus allowing the molecule to be transferred to the lysines of substrate proteins.

Product Information

Quantity:	1 mg, lyophilized powder
MW:	8.5 kDa
Solubility:	Soluble and stable in aqueous buffers up to 5 mg/ml.
Purity:	> 95% by SDS-PAGE

Use & Storage

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

Literature

References:

Arnason T., *et al.* (1994) Mol. Cell. Biol. **14**:7876-7883
Baboshina D.V., *et al.* (1996) J.Biol.Chem. **271**:2823-2831
Finley D., *et al*. (1994) Mol. Cell. Biol. **14**:5501-5509
Johnson E.S., *et al.* (1992) EMBO.J **11**:497-5055
Johnson E.S., *et al.* (1995) J.Biol.Chem. **270**: 17442-17756
Spence J., *et al.* (1995) Mol. Cell. Biol. **15**:1265-1273
Arnason T., *et al.* (1994) Mol. Cell. Biol. **14**:7876-7883
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