Lot #XXXXX

BostonBiochem

MATERIAL DATA SHEET

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

Mutation of lysine 48 to arginine renders ubiquitin (Ub) unable to form poly-Ub chains via lysine 48 linkages with other Ub molecules. Ub K48R can form an E1-catalyzed active thioester at the C-terminus allowing the molecule to be transferred to the lysines of substrate proteins (mono-ubiquitination). Ideal for the reduction in poly-Ub chain length/conjugation rates and determining if poly-Ub chains are K48 linked.

Product Information

Quantity: 1 mg, lyophilized powder

MW: 8.5 kDa

Solubility: Soluble and stable in aqueous buffers up to 10 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:

Chau V., *et al.* (1989) Science **243**:1576-1583
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

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