MATERIAL DATA SHEET

His<sub>6</sub>-Ubiquitin Mutant K48R, human recombinant
Cat. # UM-HK48R (Formerly U-520)

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 for the determination of poly-Ub chains specificity.

Product Information

| Quantity | 1 mg, lyophilized powder. |
| MW:      | 9.3 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:

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