

MATERIAL DATA SHEET**His₆-Ubiquitin-AA Mutant, *human recombinant*****Cat. # UM-HAA**

Mature forms of Ub have a highly conserved diglycine motif at the carboxyl terminus which is crucial for activity and recognition in conjugation and deconjugation reactions. The replacement this diglycine peptide with two alanine residues results in an inactive Ub. This Ub cannot be activated by the E1 enzyme in an ATP-dependent manner, is not capable of subsequent thioester interaction with E2 and/or E3 enzymes, and is thus not capable of forming isopeptide bonds or Ub conjugates. It can be used as a negative control in conjugation reactions, or in binding studies with E1, E2, E3 and DUB enzymes or other proteins that interact with ubiquitin via ubiquitin-associated domains (UBAs) or ubiquitin-interacting motifs (UIMs). This protein contains an N-terminal His₆-tag.

Product Information

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|--------------------|---------------------------------|
| Quantity: | 100 µg, lyophilized powder |
| Solubility: | Aqueous solutions up to 5 mg/ml |
| Purity: | > 95% by SDS-PAGE |
| MW: | 9.4 kDa |

Use & Storage

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| Use: | Typical concentrations will depend on specific assay conditions and method of detection. |
| Storage: | Solubilized solution at -20°C. Avoid multiple freeze/thaw cycles. |

Literature

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| References: | Chau V. <i>et al.</i> (1989) <i>Science</i> , 243 :1576-1583 |
| | Hass A.L. and Rose I.A. (1982) <i>J.Biol.Chem.</i> 257 :10329-10337 |
| | Hass A.L. <i>et al.</i> (1985) <i>J.Biol.Chem.</i> 260 :4694-4703 |
| | Reyes-Turcu R.E., <i>et al.</i> (2006) <i>Cell</i> , 124 :1197-1208 |
| | Sloper-Mould K.E. <i>et al.</i> (2001) <i>J.Biol.Chem.</i> 276 :30483-30489 |
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| | Wilkinson K.D. and Audya T.K. (1981) <i>J.Biol.Chem.</i> 256 :9235-9241 |

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