

MATERIAL DATA SHEET**Ubiquitin N-Terminal Rhodamine, *human recombinant***
Cat. # U-600

Produced via a proprietary process resulting in a single rhodamine modification exclusively on the N-terminus of ubiquitin. This site-specific modification results in an ubiquitin that is fully functional at the C-terminus, and with the full compliment of reactive lysines to allow for poly-ubiquitin chain incorporation. This reagent allows for poly-ubiquitin chain incorporation of rhodamine-N-terminal ubiquitin with higher efficiency and detection sensitivity than traditionally modified ubiquitins.

Product Information

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| Quantity: | 50 µg, lyophilized powder, |
| Stock: | Soluble in aqueous buffer or DMSO up to 10 mg/ml. |
| MW: | 8.6 kDa |
| Purity: | > 95% by PAGE |

Use & Storage

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| Use: | Rhodamine-N-term-ubiquitin gives a strong signal in the range of 0.1-1 µM, depending on exact experimental conditions. Optimal fluorescence at pH 8.0 is monitored using Ex ₅₇₀ nm and Em ₅₉₀ nm wavelengths respectively. |
| Storage: | Store at -20°C once reconstituted. Avoid multiple freeze/ thaw cycles. Product is light-sensitive, protect from light. |

Literature

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| References: | Corsi D., <i>et al.</i> (1995) <u>J. Biol. Chem.</u> 270 :8928-8935 Mitsui A., <i>et al.</i> (1999) <u>PNAS</u> 96 :6054-6059 Mimnaugh E.G. <i>et al.</i> (1999) <u>Electrophoresis</u> 29 :418-428 Wilkinson K.D. and Audhya T.K. (1981) <u>J. Biol. Chem.</u> 256 :9235-9241 |
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