

MATERIAL DATA SHEET**SUMO1 Rhodamine, *human recombinant*****Cat. # UL-736**

SUMO-1 modified with rhodamine red via primary amine coupling resulting in modification of lysine residues as well as the N-terminus. Although having a fully functional C-terminus, lysine modification may limit the ability of this reagent to propagate poly-SUMO chains. This labeled SUMO-1 allows for direct detection spectrophotometrically with higher efficiency and sensitivity than with antibodies.

Product Information

Quantity:	50 µg
Stock:	X mg/ml (X µM) in 50mM Hepes pH 7.5, 100mM NaCl. Actual concentration varies with lot number.
MW:	11.1 kDa
Purity:	> 95% by PAGE

Use & Storage

Use:	Rhodamine SUMO-1 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 -80°C. Avoid multiple freeze/ thaw cycles.

Literature

References:	Desterro J.M., <i>et al.</i> (1997) <u>FEBs. Lett.</u> 417 :297-300 Okama T., <i>et al.</i> (1999) <u>Biochem. Biophys. Res. Comm.</u> 254 :693-698 Rodriguez M.S <i>et al.</i> (2001) <u>J. Biol. Chem.</u> 276 :12654 Seeler J-S. and Dejean A. (2003) <u>Nat. Rev.</u> 4 :690-699 Su H-L., <i>et al.</i> (2002) <u>Gene.</u> 296 :65-73 Tatham M.H., <i>et al.</i> (2001) <u>J. Biol. Chem.</u> 276 :35368-35374 Yeh E.T.H., <i>et al.</i> (2000) <u>Gene.</u> 248 :1-14
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