

MATERIAL DATA SHEET**SUMO1 Mutant K16R, human recombinant****Cat. # ULM-712**

Mutation of lysine 16 to arginine in SUMO-1 is useful for the analysis of poly-SUMO-1 chain formation. Human SUMO-1 does not contain the exact ψ KXE motif consensus sequence found in SUMO-2 and SUMO-3 proteins, but K¹⁶ is the putative site for chain formation. SUMO-1 has been shown to form chains *in vitro*, but the function of SUMO chains has not yet been fully elucidated.

Product Information

Quantity:	250 μ g
Stock:	X mg/ml (X μ M) in 50 mM HEPES pH 8.0, 150 mM NaCl, 1mM DTT. Concentration will vary with specific Lot #.
MW:	11.1 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical <i>in vitro</i> concentrations for conjugate formation is 10-50 μ M depending on conditions.
Storage:	Store at -80°C once reconstituted. Avoid multiple freeze/thaw cycles.

Literature

References:	Bencsath K. P., <i>et al.</i> (2002) <i>J. Biol. Chem.</i> 277 : 47938–47945 Dohmen R.J., <i>et al.</i> (2004) <i>Biochem. Biophys. Acta</i> 1695 : 114-131 Johnson E. S. and Gupta A. A., (2001) <i>Cell</i> 106 : 735–744 Johnson E.S. (2004) <i>Ann. Rev. Biochem.</i> 73 : 355-382 Pichler A., <i>et al.</i> (2002) <i>Cell</i> 108 : 109–120 Takahashi Y., <i>et al.</i> (2003) <i>J. Biochem.</i> 133 : 415–422 Tatham M.H., <i>et al.</i> (2001) <i>J.Biol.Chem.</i> 276 : 35368-35374.
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