

MATERIAL DATA SHEET**SUMO-2 K11R mutant, *human recombinant*****Cat. # ULM-752**

Mutation of lysine 11 to arginine renders SUMO-2 unable to form poly-SUMO multimers and is useful to investigate mono-SUMOylation or can be used to reduce poly-SUMO chain formation. Human SUMO-2 contains the VK¹¹TE sequence which allows for the formation of poly-SUMO chains. K¹¹ is the conserved lysine that becomes modified and is the point of attachment for the C-terminal glycine of the preceding SUMO-2. The function of SUMO chains has not yet been fully elucidated.

Product Information

Quantity:	250 µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 150 mM NaCl, 1mM DTT. Concentration will vary with specific Lot #.
MW:	10.6 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical <i>in vitro</i> concentrations for conjugate formation is 10-50 µM 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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