# MATERIAL DATA SHEET

## SUMO1 Mutant K7R/K16R/K17R, human recombinant Cat. # ULM-722

Human SUMO-1 does not contain the exact ψKXE consensus sequence found in SUMO-2 and SUMO-3. Within this motif  $\psi$  represents a large hydrophobic amino acid (I, L, or V), K is the lysine that becomes modified, X is any residue and E is glutamic acid. Many known SUMO-1 conjugation sites occur within this consensus sequence, but SUMOylation also occurs on lysine residues located within non-consensus regions. SUMO-1 has been shown to form chains in vitro and in vivo but often the linkage is uncharacterized, and the function of SUMO chains has not yet been fully elucidated. SUMO-1 multimerization in vitro has been shown to occur predominantly via lysines K7, K16 and K17. Mutation of these three lysines to arginine is useful to investigate mono-SUMOylation requirements or to reduce poly-SUMO chain formation

#### **Product Information**

**Quantity:** 250 µg

Stock: X mg/ml (X µM) in 50 mM HEPES pH 8.0, 150 mM NaCl, 1mM DTT.

Actual concentration varies with lot number.

MW: 11.1 kDa

**Purity:** > 95% by SDS-PAGE

#### **Use & Storage**

Use: Typical in vitro concentrations for conjugate formation is 10-50 µM depending

on conditions.

Storage: Store at -80°C once reconstituted. Avoid multiple freeze/thaw cycles.

### Literature

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