

MATERIAL DATA SHEET**His₆-Pro-SUMO1, human recombinant**
Cat. # UL-705

All SUMO isoforms are translated with additional C-terminal residues that have to be removed to generate the active protein. Pro-SUMO-1 (101 amino acids) is the inactive precursor of SUMO-1 (97 amino acids) and is processed at the C-terminus by SUMO-1 specific proteases (SENPs). The resulting SUMO-1 protein has the conserved C-terminal Gly-Gly residues that function in activation and conjugation reactions. This protein can be used as a negative control in sumoylation reactions or as a substrate for SENPs. This His₆ tag is at the N-terminus. NCBI accession # NM_003352.

Product Information

Quantity:	X 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:	13.7 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical <i>in vitro</i> concentrations are 10-50 µM depending on conditions.
Storage:	Store in -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Adams M. D., <i>et al.</i> (1993) <u>Nat.Genet.</u> 4 : 373-380, 1993. Dai K.-S. and Liew C.-C. (2001) <u>J.Biol.Chem.</u> 276 : 23992-23999 Kamitani T. <i>et al.</i> (1998) <u>J.Biol.Chem.</u> 273 : 11349-11353 Lapenta V., <i>et al.</i> (1997) <u>Genomics</u> 40 : 362-366, Mannen H., <i>et al.</i> (1996) <u>Biochem.Biophys.Res.Comm.</u> 222 :178-180 Su H.-L. and Li S.S.-L. (2002) <u>Gene</u> 296 : 65-73 Chung T.L., <i>et al.</i> (2004) <u>J.Biol.Chem.</u> 279 : 39653-39662. Yeh E.T.H., <i>et al.</i> (2000) <u>Gene</u> 248 :1-14
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