

MATERIAL DATA SHEET**His₆-Pro-SUMO2, human recombinant**
Cat. # UL-751

All SUMO isoforms are translated with additional C-terminal residues that have to be removed to generate the active protein. Pro-SUMO-2 (95 amino acids) is the inactive precursor of SUMO-2 (93 amino acids) and is processed at the C-terminus by SUMO-2 specific proteases (SENPs). The resulting SUMO-2 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. NCBI accession # NM_006937.

Product Information

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| Quantity: | X µg |
| Stock: | X mg/ml (X µM) in 50 mM HEPES pH 8.0, 250 mM NaCl, 1mM DTT, 1mM EDTA. Actual concentration varies with lot number. |
| MW: | 13 kDa |
| Purity: | > 95% by SDS-PAGE |

Use & Storage

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

Literature

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| 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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