

**MATERIAL DATA SHEET****His<sub>6</sub>-Pro-SUMO3, human recombinant****Cat. # UL-761**

All SUMO isoforms are translated with additional C-terminal residues that have to be removed to generate the active protein. Pro-SUMO-3 (103 amino acids) is the inactive precursor of SUMO-3 (92 amino acids) and is processed at the C-terminus by SUMO-3 specific proteases (SENPs). The resulting SUMO-3 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 His<sub>6</sub> tag is at the N-terminus. NCBI Accession # NM\_006936.

**Product Information**

<b>Quantity:</b>	X µg
<b>Stock:</b>	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 150 mM NaCl, 1mM DTT. Actual concentration varies with lot number.
<b>MW:</b>	13.8 kDa
<b>Purity:</b>	> 95% by SDS-PAGE

**Use & Storage**

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

**Literature**

<b>References:</b>	Lapenta V., <i>et al.</i> (1997) <u>Genomics</u> <b>40</b> :362-366 Gill G. (2004) <u>Genes.Dev.</u> <b>18</b> :2046-2059 Meluh P.B. and Koshland D. (1995) <u>Mol. Biol. Cell</u> <b>6</b> : 793-807 Saitoh H. and Hinchev J. (2000) <u>J.Biol. Chem.</u> <b>275</b> :6252-6258 Su H.L. and Li S.S.-L. (2002) <u>Gene</u> <b>296</b> : 65-73 Subramanian L., <i>et al.</i> (2003) <u>J.Biol. Chem.</u> <b>278</b> :9134-9141 Yeh E.T.H., <i>et al.</i> (2000) <u>Gene</u> <b>248</b> :1-14
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