

*Division of Signal Transduction Therapy*

**Standard Operation Procedure**

**Preparation of His-SUMO1 1-97 (mature full length)**

<b><u>Enzyme description:-</u></b>	SUMO1 1-97
<b><u>Clone number:-</u></b>	DU32080
<b><u>Source:-</u></b>	human recombinant
<b><u>Tag:-</u></b>	His-
<b><u>Purification method:-</u></b>	Ni <sup>2+</sup> -NTA-Sepharose
<b><u>Expression system:-</u></b>	E.coli

**Calculated molecular mass:-**

Monoisotopic	13568 Da
Average Mass	13577 Da
[cysteines reduced, methionines have not been oxidised]	

**Theoretical pI:-** 6.09

**Purity:-** 90%

**Enzyme storage buffer:-**

10mM Ammonium bicarbonate

**Storage temperature:-** -80°C

**Assay:-**

Loading of UBE2I.

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**Clone Data Sheet**

**His-SUMO 1-97**

<b><u>Protein</u></b>	SUMO1 1-97
<b><u>Synonyms</u></b>	SUMO1 (SMT3 suppressor of mif two 3 homolog 1 isoform a)
<b><u>Clone Number</u></b>	DU32080
<b><u>Species</u></b>	Human
<b><u>Accession Number</u></b>	Protein: NP_003343
<b><u>Tags</u></b>	His-
<b><u>Aminoacid sequence of the expressed protein</u></b>	MGSSHHHHHHSSGLEVLFO <u>GP</u> GSMSDQEAKPSTEDLGDKKEGEYIKL <b>KVIGQDSSEIHFVKVMTTHLKKLKESYCORQGVPMNSLRFLFEGQRI</b> <b>ADNHTPKELGMEEEDVIEVYQEQTGG</b>
<b><u>Native sequence</u></b>	The native sequence is a little longer and normally processed to this mature form by SENP1.
<b><u>Protease cleavage</u></b>	Precession protease site underlined
<b><u>Cloning sites</u></b>	BamHI / NotI
<b><u>DNA sequence of insert</u></b>	GGATCCATGTCTGACCAGGAGGCAAACCTTCAACTGAGGACTTGGGGGA <b>TAAGAAGGAAGGTGAATATATTAACTCAAAGTCATTGGACAGGATAGCA</b> <b>GTGAGATTCACCTCAAAGTGAAAATGACAACACATCTCAAGAACTCAA</b> <b>GAATCATACTGTCAAAGACAGGGTGTTCCAATGAATTCACCTCAGGTTTCT</b> <b>CTTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTGGGAA</b> <b>TGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACGGGGGGTTAA</b> TCAACAGTTTAGGCCGCCGC