

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-SUMO2 (1-93 = mature full length)

Enzyme description:- SUMO2 1-93

Clone number:- DU32081

Source:- human recombinant

Tag:- His-

Purification method:- Ni²⁺-NTA-Sepharose

Expression system:- E.coli

Calculated molecular mass:-

Monoisotopic 13045 Da

Average Mass 13053 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.4

Purity:- 90%

Enzyme storage buffer:-

10mM Ammonium bicarbonate

Storage temperature:- -80°C

Assay:-

Loading of UBE2I.

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Clone Data Sheet

His-SUMO2 1-93

<u>Protein</u>	SUMO2 (1-93 = mature full length)
<u>Synonyms</u>	(SMT3 suppressor of mif two 3 homolog 2)
<u>Clone Number</u>	DU32081
<u>Species</u>	Human
<u>Accession Number</u>	Protein: NP_008868 DNA AK311837.1
<u>Tags</u>	His-
Aminoacid sequence of the expressed protein	MGSSHHHHHSSGLEVLFQGP G PSMADEK P KEGVKTE N NDH I NLK V AG QDG S VVQFK I KRHTPLSKLM K AYCER Q GLSMRQIRFRFDG Q PINETD TPA Q LEMEDED T IDVF Q QTGG
Native sequence	The native sequence is a little longer and normally processed to this mature form by SENP1.
Protease cleavage	Prescission protease site underlined
Cloning sites	BamHI / NotI
<u>DNA sequence of insert</u>	GGATCC ATGGCCGACGAAAAGCCCAGGAAAGGAGTCAGACTGAGAACAA CGATCATATTAA TTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCA GT TTAAGATTAAGAGGCATACACCACTTAGTAA CTAATGAAAGCCTATTGT GAACGACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTGACGGCA ACCAATCAATGAAACAGACACACCTGCACAGTTGGAAATGGAGGATGAAG ATACAATTGATGTGTTCCAACAGCAGACGGGAGGTTAATACTGAGTCGAC TCGAAAGCGGCCGC