

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of SENP1 415-643

Enzyme description:- His-SENP1 415-643

Clone number:- DU39129

Source:- Recombinant

Tag:- N-terminal His₆

Purification method:- Ni⁺⁺-Sephrose

Expression level:- 10mg/L

Calculated molecular mass:-

Monoisotopic 30860 Da

Average Mass 30879 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 7.7

Purity:- 90%

Enzyme storage buffer:-

50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT

Storage temperature:- -80°C

Assay:-

Division of Signal Transduction Therapy

Clone Data Sheet

Protein name SENP1 415-643

<u>Protein</u>	His-SENP1 (catalytic domain)
<u>Synonyms</u>	SuPr-2, SUMO1/sentrin specific protease 1
<u>Clone Number</u>	DU39129
<u>Species</u>	Human
<u>Accession Number</u>	Protein Q9P0U3
<u>Tags</u>	N-terminal His ₆
Aminoacid sequence of the expressed protein	MSYHHHHHHHDYDIPTTENLYFOGAMADIGSDSEDEFPEITEEMEKEIKN VFRNGNQDEVLSEAFRLTITRKDIQTLNHLNWLNDEIINFYMNMLMERSK EKGLPSVHAFNTFFFTKLKTAGYQAVKRWTKKVDVFSVDILLVPIHLGVH WCLAVVDFRKKNIYYDSMGGINNEACRILLQYLKQESIDKKRKEFDTNG WQLFSKKSQIPQQMNGSDCGMFACTYADCITKDRPINF^TQQHMPYFRKRM VWEILHRKLL
Native sequence	in bold
Protease cleavage	TEV protease site underlined
Cloning sites	BamH1 Xho1

<u>DNA sequence of insert</u>	ATGTCGTA CTACCATCACCATCACCATCAGATTACGATATCCCAACGAC CGAAAACCTGTATTTTCAGGGCGCCATGGCTGATATCGGATCCgatagtg aagatgaatttcctgaaattacagaggaaatggagaaagaaataaagaat gtatttcgtaatgggaatcaggatgaagttctcagtgagcatttcgcct gaccattacacgcaaagatattcaaactctaaaccatctgaattggctca atgatgagatcatcaatttctacatgaatatgctgatggagcgaagtaaa gagaagggcttgccaagtgtgcatgcatttaatacctttttcttactaa atataaaacggctggttatcaggcagtgaaacgcttggaacaagaaagtag atgtattttctggtgacattcttttggtgccattcacctgggagtacac tgggtcttagctggttggtgactttagaaagaagaatattacctattacga ctccatgggtgggataaacaatgaagcctgcagaatactcttgcaatacc taaagcaagaaagcattgacaagaaaaggaaagagtttgacaccaatggc tggcagcttttcagcaagaaaagccagattcctcagcagatgaatggaag tgactgtgggatggttgctgcaaatatgctgactgtattaccaagaca gaccaatcaacttcacacagcaacacatgccatacttccggaagcggatg gtctgggagatcctccaccgaaaactcttgtgaTAACTCGAG
--------------------------------------	--