

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-UBE2E1

Enzyme description:- His-UBE2E1 1-193 (full length)

Clone number:- DU12803

Source:- human recombinant

Tag:- N-terminal His₆-tag

Purification method:- Ni⁺⁺-NTA-Sepharose

Expression system:- E.coli

Calculated molecular mass:-

Monoisotopic 25003 Da

Average Mass 25018 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 8.84

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

Loading with Ubiquitin and UBE1 in the presence of Mg-ATP

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Clone Data Sheet

His-UBE2E1

<u>Protein</u>	His-UBE2E1 1-193 (full length)
<u>Synonyms</u>	UbcH6, E2E1
<u>Clone Number</u>	DU12803
<u>Species</u>	Human
<u>Accession Number</u>	Protein: NP_003332
<u>Tags</u>	N-terminal His ₆ tag
Aminoacid sequence of the expressed protein	MGSSHHHHHSSG <u>LEVL</u> FQGPSP EF PGVDSKAAAMS DDDSRASTSSSSSSSSNQTEKETNTPKKKESKVSMSKNSKLLSTSAKRIQKELADITLDPPP NCSAGPKGDNIYEWRS TILGPPGSVYEGGVFFLDITFTPEYPFKPPKVTF RTRIYHCNINSQGVICLDILKDNWSPAL TISKVLLSICSL LLTDCNPADPLVGS IATQYMTNRAEHRMARQ WTKRYAT
Native sequence	in bold
Protease cleavage	Prescission Protease site underlined
Cloning sites	Not1
<u>DNA sequence of insert</u>	GCGGCCGCGATGTCGGATGACGATTTCGAGGGCCAGCACCAGCTCCTCCTC ATCTTCGTCTTCCAACCAGCAAACCGAGAAAGAAACAAACACCCCAAGA AGAAGGAGAGTAAAGTCAGCATGAGCAAAAACTCCAACTCCTCTCCACC AGCGCCAAGAGAAATTCAGAAGGAGCTGGCGGACATCACTTTAGACCCTCC ACCTAATTGCAGTGCTGGTCCCAAAGGCGATAACATCTATGAATGGAGAT CAACCATTCTAGGGCCTCCAGGATCCCGTGTATGAGGGTGGTGTATTCTTT CTCGATATCACTTTTACACCAGAATATCCCTTCAAGCCTCCAAAGGTTAC ATTTGCGACAAGAATCTATCATTTGTAATATTAACAGTCAAGGTGTTATTT GCTTGGACATATTGAAAGATAATTGGAGTCCAGCACTAACCATTTCTAAA GTCTCCTTTCTATCTGCTCACTTCTTACAGACTGTAATCCTGCCGACCC CTTGGTGGGAAGTATTGCCACTCAGTATATGACCAACAGAGCAGAACATG ACAGAATGGCCAGACAGTGGACCAAGAGATACGCTACATAAGCGGCCGC