

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-Ubiquitin 2-76 [K63R]

Enzyme description:- Ubiquitin 2-76 [K63R]

Clone number:- DU8737

Source:- BL21 recombinant

Tag:- N-terminal His₆-tag

Purification method:- Ni⁺⁺-NTA-Sepharose

Expression level:- 1.2 mg/L

Calculated molecular mass:-

Monoisotopic 10909 Da

Average Mass 10916 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 7.17

Purity:- 90%

Enzyme storage buffer:-

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

Storage temperature:- -80°C

Assay:-

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Clone Data Sheet

His-Ubiquitin 2-76 [K63R]

<u>Protein</u>	Ubiquitin 2-76 [K63R]
<u>Synonyms</u>	
<u>Clone Number</u>	DU8737
<u>Species</u>	Human
<u>Accession Number</u>	Protein: 62988
<u>Tags</u>	N-terminal His ₆ tag
Aminoacid sequence of the expressed protein	MGSPHHHHHSSGLEVLFOGPGS QIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGKQLEDGRTLSDYNIQREESTLHLVLRGG
Native sequence	in bold
Protease cleavage	Prescission protease site underlined
Cloning sites	BglIII/BamH1 XhoI
<u>DNA sequence of insert</u>	GGATCCCAGATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGA AGTGGAGCCGAGTGACACCATTGAGAATGTCAAGGCAAAGATCCAAGACA AGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGGAAACAG CTGGAAGATGGACGCACCCTGTCTGACTACAACATCCAGAGAGAGTCCAC CCTGCACCTGGTCCCTCCGTCTCAGAGGTGGGTGATAACTCGACTCGAG