

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of His-Ubiquitin 2-76 [K48R K63R]

Enzyme description:- Ubiquitin 2-76 [K48R K63R]

Clone number:- DU8738

Source:- human recombinant

Tag:- N-terminal His₆-tag

Purification method:- Ni⁺⁺-NTA-Sepharose

Expression system:- *E.coli*

Calculated molecular mass:-

Monoisotopic 10944 Da

Average Mass 10937 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 [K48R K63R]

<u>Protein</u>	Ubiquitin 2-76 [K48R K63R]
<u>Synonyms</u>	
<u>Clone Number</u>	DU8738
<u>Species</u>	Human
<u>Accession Number</u>	Protein: 62988
<u>Tags</u>	N-terminal His ₆ tag
Aminoacid sequence of the expressed protein	MGSPHHHHHSSG <u>LEVL</u> FQGP <u>GSQIFVKTLTGKTTITLEVEPSDTIENVKAKIQDKEGIPPDQQLIFAGRQLEDGRTLSDYNIQRESTLHLVLR</u> RGG
Native sequence	in bold
Protease cleavage	Prescission protease site underlined
Cloning sites	BgIII/BamH1 Xho1
<u>DNA sequence of insert</u>	GGATCTCAAATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGA AGTGGAGCCGAGTGACACCATTGAGAATGTCAAGGCAAAGATCCAAGACA AGGAAGGCATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGGAGACAG CTGGAAGATGGACGCACCCTGTCTGACTACAACATCCAGAGAGAGTCCAC CCTGCACCTGGTCCTCCGTCTCAGAG