

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of Halo-Ubiquitin tetramer

Enzyme description:- Ubiquitin tetramer (1-76) full length

Clone number:- DU24952

Source:- human recombinant

Tag:- His-Halo

Purification method:- Ni-agarose

Expression system:- E.coli

Calculated molecular mass:-

Monoisotopic 69831 Da

Average Mass 69873 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 5.57

Purity:- 90%

Enzyme storage buffer:-

50 mM Tris pH 7.5, 150mM NaCl, 1mM DTT

Storage temperature:- -80°C

Assay:-

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Clone Data Sheet

Ubiquitin tetramer

<u>Protein</u>	Ubiquitin tetramer (1-76) full length mature
<u>Synonyms</u>	
<u>Clone Number</u>	DU24952
<u>Species</u>	Human
<u>Accession Number</u>	P62987
<u>Tags</u>	N-terminal His-Halo
<u>Aminoacid sequence of the expressed protein</u>	MHHHHHMAEIGTGFPDPHYVEVLGERMHYVDVGP RDGTPVLF LHG NPT SSYVWRNIIPHVAPTHR CIAPDLIGMGKSDK PDLGYFFDDHVR FMDAFIE ALGLEEVVLVIHDWGSALGFHWAKRNP ERVKGIAFMEFIRPIPTWDEWPE FARETFQAFRTT DVGRKLIIDQNVFIEGTLPMGVVRPLTEVEMDHYREPF LNPVDREPLWRFPNELPIAGEPANIVALVEEYMDWLHQSPVPKLLFWGTP GVLIPPAEAARLAKSLPNCKAVDIGPGLNLLQEDNPDLIGSEIARWLSTL EISGENLYFOGGSAGM QIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEG IPPDQORLIFAGKQLEDGRTLSDYNIQESTLHLVLRRLRGGMQIFVKTLT GKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDY NIQESTLHLVLRRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDK EGIPPDQORLIFAGKQLEDGRTLSDYNIQESTLHLVLRRLRGGMQIFVKT LTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLS DYNIQESTLHLVLRRLRGG
Native sequence	mature full length ubiquitin dimer1-76 in bold.
Protease cleavage	TEV-protease site underlined
Cloning sites	BamH1 / Not1

**DNA sequence
of insert**

ATGCATCACCATCACCATCACATGGCAGAAATCGGTACTGGCTTTCCATT
CGACCCCATTTATGTGGAAGTCCTGGGCGAGCGCATGCACTACGTTCGATG
TTGGTCCGCGCGATGGCACCCCTGTGCTGTTCCCTGCACGGTAACCCGACC
TCCTCCTACGTGTGGCGCAACATCATCCCGCATGTTGCACCCGACCCATCG
CTGCATTGCTCCAGACCTGATCGGTATGGGCAAATCCGACAAACCAGACC
TGGGTTATTTCTTCGACGACCACGTCCGCTTCATGGATGCCTTCATCGAA
GCCCTGGGTCTGGAAGAGGTCGTCCTGGTCATTCACGACTGGGGCTCCGC
TCTGGGTTTCCACTGGGCCAAGCGCAATCCAGAGCGCGTCAAAGGTATTG
CATTTATGGAGTTCATCCGCCCTATCCCGACCTGGGACGAATGGCCAGAA
TTTGGCCGCGAGACCTTCCAGGCCTTCCGCACCACCGACGTCCGCCGCAA
GCTGATCATCGATCAGAACGTTTTTATCGAGGGTACGCTGCCGATGGGTG
TCGTCCGCCCGTACTGAAGTCGAGATGGACCATTACCGCGAGCCGTTT
CTGAATCCTGTTGACCGCGAGCCACTGTGGCGCTTCCCAAACGAGCTGCC
AATCGCCGGTGAGCCAGCGAACATCGTCGCGCTGGTTCGAAGAATACATGG
ACTGGCTGCACCAGTCCCCTGTCCCGAAGCTGCTGTTCTGGGGCACCCCA
GGCGTTCTGATCCCACCGGCCGAAGCCGCTCGCCTGGCCAAAAGCCTGCC
TAACTGCAAGGCTGTGGACATCGGCCCGGGTCTGAATCTGCTGCAAGAAG
ACAACCCGGACCTGATCGGCAGCGAGATCGCGCGCTGGCTGTCGACGCTC
GAGATTTCCGGCGAAAACCTGTATTTTTCAGGGCGGATCCGCCGGCATGCA
GATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGC
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TGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACC
TGGTCTCCGTCTCAGAGGCGGCATGCAGATCTTCGTGAAGACCCTGACT
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GAATGTCAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGC
AGAGGTTGATCTTTGCTGGGAAACAGCTGGAAGATGGACGCACCCTGTCT
GACTACAACATCCAGAAAGAGTCCACCCTGCACCTGGTCTCCGTCTCAG
AGGCGGCTGATAAGCGGCCGC