*Division of Signal Transduction Therapy*

# Standard Operation Procedure

# Preparation of Halo-Ubiquitin

**Enzyme description:-** Ubiquitin (1-76) full length mature

**Clone number:-** DU24950

**Source:-** human recombinant

**Tag:-** His-Halo

**Purification method:-** Ni-agarose

**Expression system:-** E.coli

**Calculated molecular mass:-**

| | |
|---|---|
| Monoisotopic | 44206 Da |
| Average Mass | 44233 Da |

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 5.31

**Purity:-** 90%

**Enzyme storage buffer:-**

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

**Storage temperature:-** -80ºC

**Assay:-**

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# Clone Data Sheet

# Ubiquitin

| | |
|---|---|
| **Protein** | Ubiquitin (1-76) full length mature |
| **Synonyms** | |
| **Clone Number** | DU24950 |
| **Species** | Human |
| **Accession Number** | P62987 |
| **Tags** | N-terminal His-Halo |
| **Aminoacid sequence of the expressed protein** | MHHHHHHMAEIGTGFPFDPHYVEVLGERMHYVDVGPRDGTPVLFLHGNPT<br>SSYVWRNIIPHVAPTHRCIAPDLIGMGKSDKPDLGYFFDDHVRFMDAFIE<br>ALGLEEVVLVIHDWGSALGFHWAKRNPERVKGIAFMEFIRPIPTWDEWPE<br>FARETFQAFRTTDVGRKLIIDQNVFIEGTLPMGVVRPLTEVEMDHYREPF<br>LNPVDREPLWRFPNELPIAGEPANIVALVEEYMDWLHQSPVPKLLFWGTP<br>GVLIPPAEAARLAKSLPNCKAVDIGPGLNLLQEDNPDLIGSEIARWLSTL<br>EISGENLYFQGGSAG**MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEG<br>IPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGG** |
| Native sequence | mature full length ubiquitin 1-76 in bold. |
| Protease cleavage | TEV-protease site underlined |
| Cloning sites | BamH1 / Not1 |

**DNA sequence of insert**

ATGCATCACCATCACCATCACATGGCAGAAATCGGTACTGGCTTTCCATT
CGACCCCCATTATGTGGAAGTCCTGGGCGAGCGCATGCACTACGTCGATG
TTGGTCCGCGCGATGGCACCCCTGTGCTGTTCCTGCACGGTAACCCGACC
TCCTCCTACGTGTGGCGCAACATCATCCCGCATGTTGCACCGACCCATCG
CTGCATTGCTCCAGACCTGATCGGTATGGGCAAATCCGACAAACCAGACC
TGGGTTATTTCTTCGACGACCACGTCCGCTTCATGGATGCCTTCATCGAA
GCCCTGGGTCTGGAAGAGGTCGTCCTGGTCATTCACGACTGGGGCTCCGC
TCTGGGTTTCCACTGGGCCAAGCGCAATCCAGAGCGCGTCAAAGGTATTG
CATTTATGGAGTTCATCCGCCCTATCCCGACCTGGGACGAATGGCCAGAA
TTTGCCCGCGAGACCTTCCAGGCCTTCCGCACCACCGACGTCGGCCGCAA
GCTGATCATCGATCAGAACGTTTTTATCGAGGGTACGCTGCCGATGGGTG
TCGTCCGCCCGCTGACTGAAGTCGAGATGGACCATTACCGCGAGCCGTTC
CTGAATCCTGTTGACCGCGAGCCACTGTGGCGCTTCCCAAACGAGCTGCC
AATCGCCGGTGAGCCAGCGAACATCGTCGCGCTGGTCGAAGAATACATGG
ACTGGCTGCACCAGTCCCCTGTCCCGAAGCTGCTGTTCTGGGGCACCCCA
GGCGTTCTGATCCCACCGGCCGAAGCCGCTCGCCTGGCCAAAAGCCTGCC
TAACTGCAAGGCTGTGGACATCGGCCCGGGTCTGAATCTGCTGCAAGAAG
ACAACCCGGACCTGATCGGCAGCGAGATCGCGCGCTGGCTGTCGACGCTC
GAGATTTCCGGCGAAAACCTGTATTTTCAGGGCGGATCCGCCGGCATGCA
GATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGC
CGAGTGACACCATTGAGAATGTCAAGGCAAAGATCCAAGACAAGGAAGGC
ATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGGAAACAGCTGGAAGA
TGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACC
TGGTCCTCCGTCTCAGAGGCGGCTGATAAGCGGCCGC