

## *Division of Signal Transduction Therapy*

### **Standard Operation Procedure**

#### **Preparation of Halo-Ubiquitin dimer**

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

**Clone number:-** DU24951

**Source:-** human recombinant

**Tag:-** His-Halo

**Purification method:-** Ni-agarose

**Expression system:-** E.coli

**Calculated molecular mass:-**

Monoisotopic 52748 Da

Average Mass 52780 Da

[cysteines reduced, methionines have not been oxidised]

**Theoretical pI:-** 6.00

**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 dimer**

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Protein</u></b>                                      | Ubiquitin dimer (1-76) full length mature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b><u>Synonyms</u></b>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b><u>Clone Number</u></b>                                 | DU24951                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b><u>Species</u></b>                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b><u>Accession Number</u></b>                             | P62987                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b><u>Tags</u></b>                                         | N-terminal His-Halo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Aminoacid sequence<br/>of the expressed<br/>protein</b> | MHHHHHHMAEIGTGFPFDPHYVEVLGERMHYVDVGPRDGTPLFLHGNPT<br>SSYVWRNIIPHVAPTHRCIAPDLIGMGKSDKPDLGYFFDDHVRFMDFIE<br>ALGLEEVVLVIHDWGSALGFHWAKRNPERSVKGIAFMEFIRPIPTWDEWPE<br>FARETFOAFRTTDVGRKLIIDQNVFIEGTLPMGVVRPLTEVEMDHYREPF<br>LNPVDREPLWRFPNELPIAGEPANIVALVEEYMDWLHQSPVPKLLFWGTP<br>GVLIPPAEAARLAKSLPNCKAVDIGPGLNLLQEDNPDIGSEIARWLSTL<br>EISGENLYFQGGSGAMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEG<br><b>IPPDQQRILFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRGGMQIFVKTLT</b><br><b>GKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRILFAGKQLEDGRTLSDY</b><br><b>NIQKESTLHLVLRRLRGG</b> |
| 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  
CGACCCCCATTATGTGGAAGTCCTGGGCGAGCGCATGCACTACGTTCGATG  
TTGGTCCGCGCGATGGCACCCTGTGCTGTTTCCTGCACGGTAACCCGACC  
TCCTCCTACGTGTGGCGCAACATCATCCCGCATGTTGCACCGACCCATCG  
CTGCATTGCTCCAGACCTGATCGGTATGGGCAAATCCGACAAACCAGACC  
TGGGTATTTCTTCGACGACCACGTCCGCTTCATGGATGCCTTCATCGAA  
GCCCTGGGTCTGGAAGAGGTCTGTCCTGGTCATTCACGACTGGGGCTCCGC  
TCTGGGTTTCCACTGGGCCAAGCGCAATCCAGAGCGCGTCAAAGGTATTG  
CATTTATGGAGTTCATCCGCCCTATCCCGACCTGGGACGAATGGCCAGAA  
TTTGCCCGCGAGACCTTCCAGGCCTTCCGCACCACCGACGTGGGCCGCAA  
GCTGATCATCGATCAGAACGTTTTTATCGAGGGTACGCTGCCGATGGGTG  
TCGTCCGCCCGCTGACTGAAGTCGAGATGGACCATTACCGCGAGCCGTTT  
CTGAATCCTGTTGACCGCGAGCCACTGTGGCGCTTCCCAAACGAGCTGCC  
AATCGCCGGTGAGCCAGCGAACATCGTCGCGCTGGTCGAAGAATACATGG  
ACTGGCTGCACCAGTCCCCTGTCCCGAAGCTGCTGTTCTGGGGCACCCCA  
GGCGTTCTGATCCCACCGGCCGAAGCCGCTCGCCTGGCCAAAAGCCTGCC  
TAACTGCAAGGCTGTGGACATCGGCCCGGGTCTGAATCTGCTGCAAGAAG  
ACAACCCGGACCTGATCGGCAGCGAGATCGCGCGCTGGCTGTCGACGCTC  
GAGATTTCCGGCGAAAACCTGTATTTTCAGGGCGGATCCGCCGGCATGCA  
GATCTTCGTGAAGACCCTGACTGGTAAGACCATCACTCTCGAAGTGGAGC  
CGAGTGACACCATTGAGAATGTCAAGGCAAAGATCCAAGACAAGGAAGGC  
ATCCCTCCTGACCAGCAGAGGTTGATCTTTGCTGGGAAACAGCTGGAAGA  
TGGACGCACCCTGTCTGACTACAACATCCAGAAAGAGTCCACCCTGCACC  
TGGTCCTCCGTCTCAGAGGCGGCATGCAGATCTTCGTGAAGACCCTGACT  
GGTAAGACCATCACTCTCGAAGTGGAGCCGAGTGACACCATTGAGAATGT  
CAAGGCAAAGATCCAAGACAAGGAAGGCATCCCTCCTGACCAGCAGAGGT  
TGATCTTTGCTGGGAAACAGCTGGAAGATGGACGCACCCTGTCTGACTAC  
AACATCCAGAAAGAGTCCACCCTGCACCTGGTCCTCCGTCTCAGAGGCGG  
CTGATAAGCGGCCGC