

## Recombinant Human Di-Ubiquitin Protein (K48-Linked), Biotinylated

**Cat. No.** Di-Ubiquitin-37H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Human Di-Ubiquitin Protein (K48-Linked), Biotinylated without tag was expressed in E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>Poly-ubiquitylation of target proteins through linkage at K48, is now the most thoroughly studied of the various chain linkages, and we once considered the hallmark of this post-translational modification. It is now clear that many, if not all, poly-Ub chain topologies likely play distinct and important roles in regulating cellular processes. Nevertheless, the K48 linkage remains a critical pathway for cells to maintain homeostasis through proteolytic degradation, and as such remains very intriguing for the study of DUBs that play a role in the degradation, as well as the proteasome itself. These diubiquitin chains generated from the enzymatic linkage of wild-type ubiquitin through lysine 48. The most distal ubiquitin contains an arginine substitution for the lysine at position 48, limiting chain length.</p> |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 17,139.7 Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>     | Optimization of pull-down conditions for anti-K48 TUBE and anti K63-TUBE reagents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|----------------|---------------------------------------------|
| <b>Storage</b> | At -80 centigrade, avoid freeze/thaw cycles |
|----------------|---------------------------------------------|

|                       |                                  |
|-----------------------|----------------------------------|
| <b>Storage Buffer</b> | Phosphate Buffered Saline pH 7.4 |
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|                    |        |
|--------------------|--------|
| <b>Conjugation</b> | Biotin |
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## GENE INFORMATION

|                        |              |
|------------------------|--------------|
| <b>Official Symbol</b> | Di-Ubiquitin |
|------------------------|--------------|

|                 |                   |
|-----------------|-------------------|
| <b>Synonyms</b> | Di-Ubiquitin; Ub2 |
|-----------------|-------------------|

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