

Lot # XXXXX

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MATERIAL DATA SHEET

Di-Ubiquitin/Ub₂, 33-DCA-linked, human recombinant

Cat. # UCD-100

Dichloroacetone (DCA) forms of di-ubiquitin (Ub₂) are chemically linked via a DCA linker using cysteine introduced into the ubiquitin sequence at the appropriate residues to mimic a native isopeptide linkage. Reports have demonstrated that the DCA linkage is stable and cannot be processed by deubiquitinases. Additionally, the orientation of the two ubiquitins in DCA-linked Ub₂ is preserved in relation to di-ubiquitin containing a native isopeptide linkage. This makes DCA-linked Ub₂ useful for characterizing polyubiquitin-binding proteins in the absence of added deubiquitinase inhibitors.

Product Information

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| Quantity: | 100 µg, lyophilized powder |
| Solubility: | Aqueous solutions ≥ 1 mg/ml |
| MW: | 17 kDa |
| Purity: | > 95% by SDS-PAGE and HPLC |

Use & Storage

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| Use: | Typical concentrations will depend on specific assay conditions and method of detection. |
| Storage: | Resuspended material at -20°C. Avoid multiple freeze/thaw cycles. |

Literature

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| References: | Yin L., <i>et al.</i> (2000) <u>Biochemistry</u> 39 : 10001-10010 Messick T., <i>et al.</i> (2008) <u>J Biol Chem.</u> 283 : 11038-11049 Carlile, C., <i>et al.</i> (2009) <u>J Biol Chem.</u> 284 : 29326-29334 |
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