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MATERIAL DATA SHEET

Recombinant Human Linear Di-Ubiquitin/Ub2 WT Chains (M1-linked)
Cat. # UC-700B

Linkage specific Poly-Ubiquitin chains may be used as a substrate for in vitro reactions with deubiquitinating enzymes ("DUB's") that cleave the peptide or isopeptide linkage between adjacent Ubiquitin molecules. Poly-Ubiquitin chains can also be used to investigate mechanisms of binding and recognition between the chains and other proteins that contain Ubiquitin-Associated domains (UBAs), Ubiquitin-interacting motifs (UIMs), ZnF's and/or other Ubiquitin-sensing elements.

Linear ("M1")-linked Di-Ubiquitin chains are manufactured using recombinant methods to avoid the potential for contaminating synthetic intermediates. The correctness of linkage and purity of each production lot is assessed using the Absolute Quantitation of Ubiquitin method (Ub-AQUA), an LCMS-based technique that provides extremely accurate information on the composition of Poly-Ubiquitin samples.

Product Information	
Quantity:	25 µg
MW:	17 kDa
Source:	*E. coli*-derived Accession # P0CG47
Stock:	1 mg/ml (58 µM) in sterile, deionized water
Purity:	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

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Use & Storage

Use: Ubiquitin chains vary in length, linkage, and function. Linear (Met1)-linked Di-Ubiquitin Chains (Ub2) are ideal for investigating Ubiquitin-binding proteins and as substrates for Ubiquitin-specific isopeptidases. Reaction conditions will need to be optimized for each specific application. IMPORTANT: Heating this product in SDS-PAGE buffer or terminating reactions containing this product with heated SDS-PAGE buffer could lead to unexpected, high apparent molecular weight banding or smearing on gels that is not representative of product purity. For optimal results, we recommend incubation in SDS-PAGE buffer + DTT at <40 °C for 20 minutes prior to gel electrophoresis.

Storage: **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 3 months, -20 to -70 °C under sterile conditions after opening.

Literature

References:

1. Kirkpatrick D.S., *et al.* (2006) Nat Cell Biol. **8(7)** : 700-10
2. Ordureau, A., *et al.* (2014) Mol. Cell **56(3)** : 360–375
3. Ordureau, A., *et al.* (2015) Pro. Nat. Acad. of Sci. USA **112(21)** : 6637–6642
4. Phu L., *et al.* (2011) Mol Cell Proteomics **10(5)** : M110.003756

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