
MATERIAL DATA SHEET

His6-PolyUb WT Chains (2-7,K63-linked)**Cat. # UCH-330**

Linkage specific poly-ubiquitin chains are used to investigate mechanisms of chain recognition, binding and hydrolysis by the proteasome, deubiquitinating enzymes, E3 ligases or other proteins that contain ubiquitin-associated domains (UBAs) or ubiquitin-interacting motifs (UIMs). Lys63-linked poly-ubiquitin has been implicated in several non-degradative processes such as receptor endocytosis and sorting, translation, DNA damage repair, the stress response and signaling in the NF κ B pathway. This product is formed with His₆-tagged wild-type human recombinant ubiquitin and linkage-specific enzymes. This mixture of poly-ubiquitin chains contains di-ubiquitin and higher MW species; mono-ubiquitin has been removed. The His₆-tag is convenient for metal chelate affinity purification and immuno-detection using His₆-specific antibodies.

Product Information

Quantity:	100 μ g, lyophilized powder
Solubility:	Aqueous solutions up to 5 mg/ml
Purity:	> 95% by SDS-PAGE

Use & Storage

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

Literature

References:	Chen Z.J., <i>et al.</i> (2004) <u>Can. Biol. Ther</u> 3 :286-288 Deng L., <i>et al.</i> (2000) <u>Cell</u> 103 :351-361 Hofman L., <i>et al.</i> (2001) <u>J. Biol. Chem.</u> 276 :27936-43 Spence J., <i>et al.</i> (1995) <u>Mol. Cell. Biol.</u> 15 :1265-1273 Tenno T., <i>et al.</i> (2004) <u>Genes to Cells.</u> 9 :865-875 Varadan R., <i>et al.</i> (2004) <u>J. Biol. Chem.</u> 279 :7055-7063
--------------------	--

For Laboratory Research Use Only, Not For Use in Humans