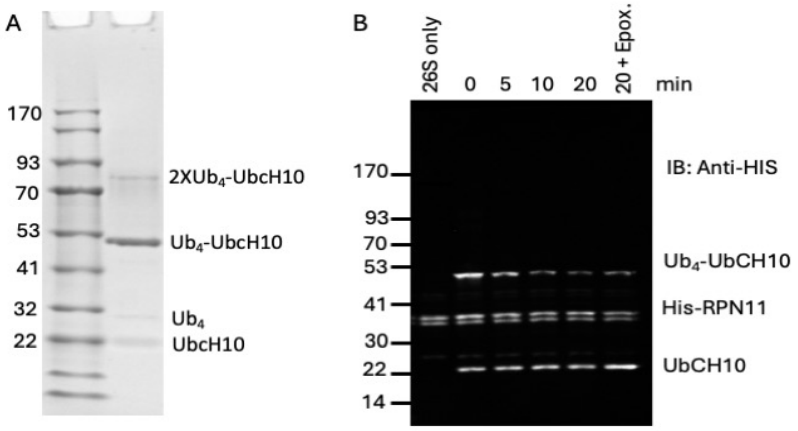
K48 Ub_4-UbcH10

Cat# G7100

Also Known as:	Ub_4 (K48-linked)-UbcH10, K48 Ub_4-UbE2C
Packing Size:	20 µg
UniProt ID:	O00762 (UbcH10)
MW:	56 kDa for K48 Ub_4-UbcH10
Species:	Human
Tag:	6xHis at the N-terminus of UbcH10
Stock Buffer:	20 mM Tris, pH 7.6 at 4 °C, 150 mM NaCl, 2 mM βME, 80 mM Imidazole and 10% glycerol.
Concentration:	See tube label
Quality Assurance:	>80% purity by SDS-PAGE as ubiquitinated UbcH10

Image

A. 3 µg K48 Ub_4-UbcH10 resolved in a 4-12% Bis-Tris gel, visualized by Coomassie staining.
B. Degradation of 100 nM K48-Ub_4-UbcH10 by 25 nM human 26S proteasome (Catalog# A1100). Detected by immunoblotting of the 6xHIS tag present in both UbcH10 and the proteaosmal subunit Rpn11. 100 µM epoxomicin was added to inhibit 26S proteasome as a control.



Description: K48-linked Ub_4 is covalently conjugated on lysine residues of UbcH10, with the majority of the product containing one Ub_4. This ubiquitin chain length defined substrate is well-suited for *in vitro* assays evaluating deubiquitination, polyubiquitinated substrate binding, and proteasomal degradation.

Storage: Store at -80°C; avoid multiple freeze-thaw cycles

Note: ~80% of the product is ubiquitinated UbcH10 with either one Ub_4 or two Ub_4 conjugated. The remainings are UbcH10 and K48-Ub_4.

References:

1. Liu CW et al., 2006, Mol. Cell, 24, 39-50.
2. Jacobson AD et al., 2009, J. Biol. Chem., 284, 35485-35494