

## MATERIAL DATA SHEET

### K48-linked Tetra-Ubiquitin

**Cat. #** UBC-484

**Product specification:** 25µg/vial

#### General Information

Poly-ubiquitylation of target proteins through linkage at K48, is now the most thoroughly studied of the various chain linkages, and was 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, K48 linkage remains a critical pathway for the 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 di-ubiquitin chains are generated from the enzymatic linkage (E2 -25K) of wild-type ubiquitin through lysine 48. The most distal ubiquitin contains an arginine substitution for a lysine at position 48, limiting the chain length.

**Formulation:** 20mM Tris-HCl, pH 7.5, 0.15 M NaCl

#### Quality Control

Purity: >95% as determined by SDS-PAGE

**Storage:** Store at -80 °C, avoid multiple freeze/thaw cycles