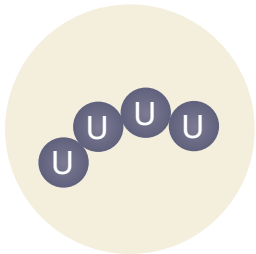
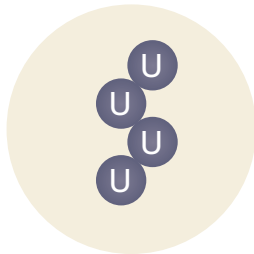


# Interrogate Ubiquitin Signaling and Protein Dynamics with Defined Polyubiquitin Chains



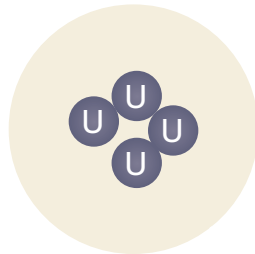
## K6-linked

DNA Damage Repair & Mitophagy



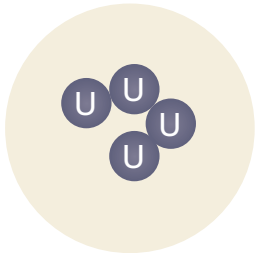
## K11-linked

Cell Cycle Control & Proteasomal Degradation



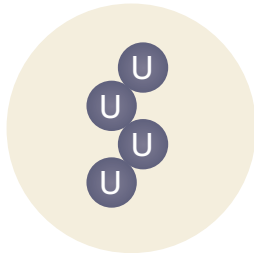
## K29-linked

Lysosomal Targeting & Stress Response



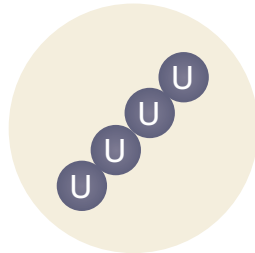
## K33-linked

Protein Trafficking & Immune Signaling



## K48-linked

Canonical Proteasomal Degradation



## K63-linked

Signaling, DNA Repair & Autophagy

## Trilogie's Polyubiquitin Chains

- Enzymatically Assembled from Wild-Type Ubiquitin
- **Defined Linkage Specificity:** Homogeneous chains with precise lysine linkage (K6, K11, K29, K33, K48, K63)
- **Controlled Chain Length:** Well-characterized di-, tetra-, or longer chains with minimal heterogeneity
- **High Purity & Integrity:** Free of mono-ubiquitin contamination and low levels of off-target linkages

## Linkage Composition Analysis Demonstrates High Homogeneity of Defined Polyubiquitin Chains

		Trilogie Polyubiquitin Chain Product							
		K6 Di	K6 Tetra	K11 Di	K11 Tetra	K48 Di	K48 Tetra	K63 Di	K63 Tetra
Linkage Type	Met1	0.06	0.02	0.11	0.20	0.03	0.03	0.01	0.97
	K6	99.6	98.9	0.18	0.18	0.11	0.19	0.18	0.49
	K11	0.08	0.16	99.4	97.6	0.01	0.21	0.01	0.01
	K27	0.03	0.01	0.08	0.06	0.01	0.01	0.01	0.01
	K29	0.01	0.01	0.11	0.04	0.02	0.03	0.01	0.01
	K33	0.01	0.02	0.13	1.72	0.01	0.01	0.01	0.01
	K48	0.19	0.68	0.02	0.11	99.8	99.2	0.06	0.01
	K63	0.05	0.21	0.01	0.07	0.02	0.28	99.4	98.5

Product	Product Code
K6-linked Di-Ubiquitin	TUB-046
K6-linked Tetra-Ubiquitin	TUB-047
K11-linked Di-Ubiquitin	TUB-048
K11-linked Tetra-Ubiquitin	TUB-049
K29-linked Di-Ubiquitin	TUB-052
K29-linked Tetra-Ubiquitin	TUB-053
K33-linked Di-Ubiquitin	TUB-054
K33-linked Tetra-Ubiquitin	TUB-055
K48-linked Di-Ubiquitin	TUB-056
K48-linked Tetra-Ubiquitin	TUB-057
K63-linked Di-Ubiquitin	TUB-058
K63-linked Tetra-Ubiquitin	TUB-059

Inquire for alternative chain lengths and linkages.

