

MATERIAL DATA SHEET**Ubiquitin Mutant D58A, *human recombinant***
Cat. # UM-D58A

D58 is a residue that has been identified as being important for binding and recognition by proteins that contain ubiquitin binding domains (UBDs), and represents a new hydrophilic interaction surface on ubiquitin. This residue may be crucial for the interaction and recognition of poly-ubiquitin chains by the 26S proteasome and other enzymes involved in ubiquitination. Ub D58A can form an E1-catalyzed active thioester at the C-terminus allowing the molecule to be transferred to the lysines of substrate proteins.

Product Information

Quantity:	1 mg, lyophilized powder
MW:	8.5 kDa
Solubility:	Soluble and stable in aqueous buffers up to 5 mg/ml.
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical concentrations for non rate-limiting support of <i>in vitro</i> conjugation reactions range from 200 μ M-1 mM depending on experimental conditions.
Storage:	Store at -20°C after solubilization in desired buffer. Avoid multiple freeze/thaw cycles.

Literature

References:	Alam S.L and Sundquist W.I. (2006) <u>Nat.Struc.Mol.Biol.</u> 13 :186-188
	Hicke L., <i>et al.</i> (2005) <u>Nat.Rev.Mol.Cell.Biol.</u> 6 :610-621
	Penengo L., <i>et al.</i> (2006) <u>Cell.</u> 124 :1183-1195
	Raiborg C., <i>et al.</i> (2006) <u>Trends.Biochem.Sci.</u> 31 :541-544

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