

MATERIAL DATA SHEET**UBE2M/Ubc12, human recombinant****Cat. # E2-656**

NEDDylation requires the coordinated activities of UBE2M (Ubc12) and the APP-BPI/Uba3 activating enzyme. This E2 enzyme mediates the covalent conjugation of the ubiquitin-like protein NEDD8 to a limited number of cellular proteins such as Cdc53/Cul1 and other members of the cullin family (which are structural subunits of the Skp1-based and elongin B/C-based families of ubiquitin protein ligases). The NEDD8 pathway is essential for cell viability in fission yeast, and in mammalian cells it is essential for cell cycle progression and morphogenesis.

Product Information

Quantity:	X µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 125 mM NaCl, 10% glycerol, 1 mM DTT. Actual concentration will vary with specific Lot #.
MW:	20 kDa
Purity:	> 95 % by SDS-PAGE
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Amir R.E., <i>et al.</i> (2002) <u>J. Biol. Chem.</u> 277 : 23253-23259
	Gong L., <i>et al.</i> (1999) <u>J. Biol. Chem.</u> 274 : 12036-12042
	Hochstrasser M. (2000) <u>Nat. Cell. Biol.</u> 2 : E153-E157
	Osaka F., <i>et al.</i> (1998) <u>Genes. Dev.</u> 12 :2263-2268
	Podust V.N., <i>et al.</i> (2000) <u>Proc. Natl. Acad. Sci.</u> 97 :4579-4584
	Tateishi K., <i>et al.</i> (2001) <u>J. Cell. Biol.</u> 155 :571-580
	Wada H., <i>et al.</i> (2000) <u>J. Biol. Chem.</u> 275 : 17008-17015

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