

**MATERIAL DATA SHEET****GST-UBE2M/Ubc12, human recombinant****Cat. # E2-655**

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**

<b>Quantity:</b>	X µg
<b>Stock:</b>	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 #.
<b>MW:</b>	46 kDa
<b>Purity:</b>	> 95 % by SDS-PAGE
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles.

**Literature**

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

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