

Lot # XXXXX

BostonBiochem

MATERIAL DATA SHEET

His₆-Ube2E3, human recombinant

Cat. # E2-678

UBE2E3 is a Class III E2 protein with unique C- and N-terminal extension in addition to the conserved UBC domain. This enzyme shares over 90% identity with UbcH6, mouse UbcM2 and Drosophila UbcD2, but the protein N-termini are divergent. This E2 enzyme is active in conjugation reactions with various E3 ligase enzyme (BRCA1, CHIP), and is known to interact with two RING-finger proteins ARA54 and RNF8 via its UBC domain. This protein has an N-terminal His₆-tag. (Accession # NP_006348.1)

Product Information

Quantity:	X μg
Stock:	X mg/ml (X μM) in 50 mM HEPES pH 8.0, 150 mM NaCl, 10% glycerol, 1 mM DTT. Concentration varies with Lot #.
MW:	24.9 kD
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration to support conjugation <i>in vitro</i> is 100nM-1 μM depending on conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Debonneville C and Staub O. (2004) <i>Mol.Cell Biol.</i> 24 :2397-2409
	Fotia A.B., <i>et al.</i> (2006) <i>Int J Biochem Cell Biol.</i> 38 :472-479
	Ito K <i>et al.</i> (1999) <i>Cytogenet. Cell Genet.</i> 84 :99-104
	Ito K <i>et al.</i> (2001) <i>Eur J Biochem.</i> 268 :2725-2732
	Matuschewski K., <i>et al.</i> (1996) <i>J. Biol. Chem.</i> 271 :472-479
	Plafker K.S., <i>et al.</i> (2004) <i>J. Cell Biol.</i> 167 :649-659
	Plafker K.S., <i>et al.</i> (2008) <i>Invest Ophthalmol Vis Sci.</i> 49 :5611-5618

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