Lot # XXXXX

BostonBiochem

MATERIAL DATA SHEET

NEDD8 E1 (APPBP1/UBA3), *human recombinant*
Cat. # E-313

The ATP-coupled activation of NEDD8 that is required for subsequent charging of the NEDD8-specific E2 UbcH12 is catalyzed by heterodimeric APPBP1-Uba3 in humans. The enzyme catalyzes the activation of the C-terminal carboxyl group of NEDD8 by forming a high-energy thioester bond in an ATP-dependent manner. Uba3 shows 43% homology to the C-terminal half of the ubiquitin activating E1 enzyme Uba1. The Uba3-catalyzed activation of NEDD8 exhibits an absolute requirement for APPBP1 which has high homology to the N-terminal half of Uba1.

Product Information	
Quantity:	25 µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 200 mM NaCl. Actual concentration will vary with specific Lot #.
Purity:	> 95% by SDS-PAGE
MW:	109 kDa

Use & Storage	
Use:	Typical enzyme concentration to support conjugation *in vitro* is 50-200 nM depending on conditions.
Storage:	Store at –80°C. Avoid multiple freeze/thaw cycles.

Literature

References:

Lake M.W., *et al.* (2001) Nature. **414**:325-328
Hemelaar J., *et al.* (2004) Mol. Cell. Biol. **24**:84-95
Walden H., *et al.* (2003) Nature. **422**:330-334

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