

Lot # XXXXX

BostonBiochem

## MATERIAL DATA SHEET

**His<sub>6</sub>-UbcH6/UBE2E1, human recombinant**

**Cat. # E2-630**

Ubiquitin-conjugating Enzyme H6 (UbcH6), also known as Ubiquitin-conjugating Enzyme E2E-1 (UBE2E1), is a ubiquitously expressed protein with a predicted molecular weight of 21 kDa. Human UBE2E1 shares 99% and 100% amino acid sequence identity with mouse and rat UBE2E1, respectively. UBE2E1 mediates the selective degradation of short-lived and abnormal proteins. UBE2E1 catalytic activity is modulated following the addition of the Ubiquitin-like protein ISG15 to Lys136. In the nucleus, the N-terminal fragment of UBE2E1 interacts with the Ubiquitin ligase (E3) TRIM21 to mediate substrate ubiquitination. UBE2E1 also interacts with the viral E3, ICP0, during HSV-1 infection. In addition, UBE2E1-dependent protein ubiquitination is implicated in polyglutamine tract disorders such as ataxia.

### Product Information

<b>Quantity:</b>	100 µg
<b>Stock:</b>	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 10% Glycerol (v/v), 1 mM TCEP
<b>MW:</b>	24 kDa
<b>Purity:</b>	> 95% by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain

### Use & Storage

<b>Use:</b>	Recombinant Human His <sub>6</sub> -UbcH6/UBE2E1 is a member of the Ubiquitin-conjugating (E2) enzyme family that receives Ubiquitin from a Ubiquitin-activating (E1) enzyme and subsequently interacts with a Ubiquitin ligase (E3) to conjugate Ubiquitin to substrate proteins. Reaction conditions will need to be optimized for each specific application. We recommend an initial His <sub>6</sub> -UBE2E1 concentration of 0.1-1 µM.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles.

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**Literature**

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