

**MATERIAL DATA SHEET****His<sub>6</sub>-UbcH3/Cdc34, human recombinant****Cat. # E2-610**

UbcH3 plays an essential role in the progression of cells from the G1 to S phase of the cell division cycle. One pathway (requiring Cdc34) initiates DNA replication by degrading a CDK (cyclin-dependent kinase) inhibitor. The second pathway, involves the anaphase-promoting complex (APC) initiates chromosome segregation and exit from mitosis by degrading anaphase inhibitors and mitotic cyclins.

**Product Information**

<b>Quantity:</b>	X µg
<b>Stock:</b>	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 50 mM NaCl, 10% glycerol, 1 mM DTT. Actual concentration will vary with specific Lot #.
<b>MW:</b>	27 kDa
<b>Purity:</b>	> 95% by SDS-PAGE

**Use & Storage**

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

**Literature**

<b>References:</b>	Goebel M.G., <i>et al.</i> (1988) <i>Science</i> <b>241</b> :1331-1335 Gonen H., <i>et al.</i> (1999) <i>J. Biol. Chem.</i> <b>274</b> :14823-14830 King R. W., <i>et al.</i> (1996) <i>Science</i> <b>274</b> :1652-1659 Listwan J., <i>et al.</i> (1998) <i>EMBO. J.</i> <b>17</b> :368-383 Pintard L., <i>et al.</i> (2003) <i>Nat. Cell. Biol.</i> <b>5</b> :856-857 Plon S.E., <i>et al.</i> (1993) <i>Proc. Natl. Acad. Sci.</i> <b>90</b> :10484-10488 Ptak C., <i>et al.</i> (1994) <i>J. Biol. Chem.</i> <b>269</b> :26539-26545 Seol J.H., <i>et al.</i> (1999) <i>Gene. Dev.</i> <b>13</b> :1614-1626 Varelas X., <i>et al.</i> (2003) <i>Mol. Cell. Biol.</i> <b>23</b> :5388-5400
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