

MATERIAL DATA SHEET**His₆-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

Quantity:	X µg
Stock:	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 #.
MW:	27 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

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

Literature

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