

Recombinant Mouse Wee1 Protein, Myc/DDK-tagged

Cat. No. Wee1-6992M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse WEE 1 homolog 1 (<i>S. pombe</i>) (Wee1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Acts as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15'. Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase. Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur. Its activity increases during S and G2 phases and decreases at M phase when it is hyperphosphorylated. A correlated decrease in protein level occurs at M/G1 phase, probably due to its degradation.
Molecular Mass	71.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Wee1 WEE 1 homolog 1 \(S. pombe\) \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Wee1](#)

Synonyms WEE1; WEE 1 homolog 1 (S. pombe); wee1-like protein kinase; wee1A kinase; WEE1 tyrosine kinase; Wee1A

Gene ID [22390](#)

mRNA Refseq [NM_009516](#)

Protein Refseq [NP_033542](#)

UniProt ID [P47810](#)

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