

## Recombinant Mouse Wee2 Protein, Myc/DDK-tagged

Cat. No. Wee2-6993M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse WEE1 homolog 2 ( <i>S. pombe</i> ) (Wee2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Oocyte-specific protein tyrosine kinase that phosphorylates and inhibits CDK1 and acts as a key regulator of meiosis during both prophase I and metaphase II. Required to maintain meiotic arrest in oocytes during the germinal vesicle (GV) stage, a long period of quiescence at dictyate prophase I, by phosphorylating CDK1 at 'Tyr-15', leading to inhibit CDK1 activity and prevent meiotic reentry. Also required for metaphase II exit during egg activation by phosphorylating CDK1 at 'Tyr-15', to ensure exit from meiosis in oocytes and promote pronuclear formation.
<b>Molecular Mass</b>	62.2 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method

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

## GENE INFORMATION

**Gene Name** [Wee2 WEE1 homolog 2 \(S. pombe\) \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Wee2](#)

**Synonyms** Wee2; WEE1 homolog 2 (S. pombe); Wee1B; Gm1065; wee1-like protein kinase 2; mWee1B; wee1-like protein kinase 1B; wee1B kinase; EC 2.7.10.2

**Gene ID** [381759](#)

**mRNA Refseq** [NM\\_201370](#)

**Protein Refseq** [NP\\_958758](#)

**UniProt ID** [Q66JT0](#)

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