

Recombinant Mouse Wee2 Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse WEE1 homolog 2 (S. pombe) (Wee2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	62.2 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.
Concentration	>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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