

WEE2 Protein, Human (Sf9, His, GST)

Cat. No.:	HY-P701729
Synonyms:	WEE2; Wee1-like protein kinase 2; Wee1-like protein kinase 1B; Wee1B kinase
Species:	Human
Source:	Sf9 insect cells
Accession:	P0C1S8 (D2-H567)
Gene ID:	494551
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	WEE2 Protein, an oocyte-specific protein tyrosine kinase, plays a pivotal role in regulating meiosis during both prophase I and metaphase II. Its essential function is highlighted in maintaining meiotic arrest in oocytes during the germinal vesicle (GV) stage, a prolonged quiescent period at dictyate prophase I. WEE2 achieves this by phosphorylating CDK1 at 'Tyr-15,' leading to the inhibition of CDK1 activity and preventing meiotic reentry. Furthermore, WEE2 is instrumental in facilitating metaphase II exit during egg activation by phosphorylating CDK1 at 'Tyr-15.' This action ensures the orderly exit from meiosis in oocytes, promoting pronuclear formation and contributing to the intricacies of reproductive processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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