

## Wee1 Protein, Human (Sf9)

Cat. No.:	HY-P701726
Synonyms:	WEE1; Wee1-like protein kinase; WEE1hu; Wee1A kinase
Species:	Human
Source:	Sf9 insect cells
Accession:	P30291 (M291-K575)
Gene ID:	7465
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	Wee1 Protein functions as a critical negative regulator of the G2 to M transition, preventing entry into mitosis by safeguarding the nucleus from the activation of cytoplasmically bound cyclin B1-complexed CDK1. Through the phosphorylation of CDK1 on 'Tyr-15,' Wee1 specifically targets and inactivates the cyclin B1-CDK1 complex, with its activity peaking during the G2 phase and reaching a minimum as cells progress into M phase. Notably, Wee1's phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15,' while monomeric CDK1 remains unphosphorylated. Its activity undergoes dynamic regulation, increasing during S and G2 phases and diminishing at M phase, accompanied by hyperphosphorylation. Additionally, a correlated reduction in Wee1 protein levels occurs during the M/G1 phase transition, potentially attributed to its degradation.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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