

Active Recombinant Human WEE1 protein, His-tagged

Cat. No. WEE1-10971H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human WEE1 Protein, His Tag is expressed from Baculovirus-Insect cells. It contains AA Met 215-Tyr 646 (Accession # P30291-1). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: Met
Species	Human
Source	Insect Cells
ProteinLength	215-646 aa
Description	WEE1 is a serine/threonine protein kinase that acts as a critical regulator of the cell cycle, particularly at the G ₂ /M checkpoint. It inhibits cell cycle progression by phosphorylating and inactivating CDK1 (Cyclin-Dependent Kinase 1) at Tyr15, thereby preventing premature entry into mitosis and allowing time for DNA repair.
Form	Supplied as 0.2 µm filtered solution in 50 mM Tris, 300 mM NaCl, pH7.5 with glycerol as protectant.
Bio-activity	The WEE1 assay is performed using the ADP-Glo™ Kinase Assay kit which quantifies the amount of ADP produced by the WEE1 reaction. The ADP-Glo™ Reagent is added to terminate the kinase reaction and to deplete the remaining ATP, and then the Kinase Detection Reagent is added to convert ADP to ATP and to measure the newly synthesized ATP using luciferase/luciferin reaction. The specific

 Tel: 1-631-559-9269 1-516-512-3133

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	activity is >10 pmol/min/μg.
Molecular Mass	The protein has a calculated MW of 51.1 kDa. The protein migrates as 8 kDa, 30-33 kDa and 55 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity	>80% as determined by SDS-PAGE.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	WEE1 WEE1 homolog (S. pombe) [Homo sapiens (human)]
Official Symbol	WEE1
Synonyms	WEE1; WEE1 homolog (S. pombe); wee1+ (S. pombe) homolog; wee1-like protein kinase; wee1A kinase; WEE1+ homolog; WEE1A; WEE1hu; FLJ16446; DKFZp686I18166;
Gene ID	7465
mRNA Refseq	NM_001143976
Protein Refseq	NP_001137448

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MIM	193525
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UniProt ID	P30291
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