

## Recombinant Human WEE1 Protein, GST-HIS6-tagged

Cat. No. WEE1-707H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human WEE1, C-terminal fragment, amino acids Q36-Y432, N-terminal GST-HIS6 fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells. Specific kinase activity (Pi transfer): 2 pmol/g × min; ATP-KM: 1.6 μM.

**Species** Human

**Source** Insect Cells

**ProteinLength** 36-432 a.a.

**Description** This gene encodes a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases. This protein catalyzes the inhibitory tyrosine phosphorylation of CDC2/cyclin B kinase, and appears to coordinate the transition between DNA replication and mitosis by protecting the nucleus from cytoplasmically activated CDC2 kinase.

**Molecular Mass** 74.902 kDa

**Storage** At -80 centigrade. For complete recovery, mix well and spin before use. Product must not be stored in diluted solutions, aliquots below 10 μ are not advisable. Avoid repeated freeze-thaw cycles!

**Concentration** 0.142 g/μ

### GENE INFORMATION

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 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Gene Name</b>	WEE1 WEE1 G2 checkpoint kinase [ Homo sapiens (human) ]
<b>Official Symbol</b>	WEE1
<b>Synonyms</b>	WEE1 WEE1 G2 checkpoint kinase; WEE1A; WEE1hu; wee1-like protein kinase; WEE1 homolog; WEE1+ homolog; wee1A kinase; EC 2.7.10.2
<b>Gene ID</b>	7465
<b>mRNA Refseq</b>	NM_001143976
<b>Protein Refseq</b>	NP_001137448
<b>MIM</b>	193525
<b>UniProt ID</b>	P30291
<b>Coomassie stain</b>	
<b>Determination of Vmax and KM value for ATP</b>	<p>Determination of KM value &amp; Specific activity:</p> <ul style="list-style-type: none"> <li>• Assay conditions:           <ul style="list-style-type: none"> <li>60 mM HEPES-NaOH, pH 7.5</li> <li>3 mM MgCl<sub>2</sub></li> <li>3 mM MnCl<sub>2</sub></li> <li>3 μM Na-orthovanadate</li> <li>1.2 mM DTT</li> <li>50 g/ml PEG20.000</li> <li>ATP (variable)</li> </ul> </li> </ul> <p>Substrate: Poly(Ala,Glu,Lys,Tyr)6:2:5:1, 20 g/ml</p>

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Kinase: 4 g/ml

- Filter binding assay

MSFC membrane (Millipore)

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