

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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Gene Name	WEE1 WEE1 G2 checkpoint kinase [Homo sapiens (human)]
Official Symbol	WEE1
Synonyms	WEE1 WEE1 G2 checkpoint kinase; WEE1A; WEE1hu; wee1-like protein kinase; WEE1 homolog; WEE1+ homolog; wee1A kinase; EC 2.7.10.2
Gene ID	7465
mRNA Refseq	NM_001143976
Protein Refseq	NP_001137448
MIM	193525
UniProt ID	P30291
Coomassie stain	
Determination of Vmax and KM value for ATP	Determination of KM value & Specific activity: Assay conditions: 60 mM HEPES-NaOH, pH 7.5 3 mM MgCl₂ 3 mM MnCl₂ 3 μM Na-orthovanadate 1.2 mM DTT 50 μg/ml PEG20.000 ATP (variable) Substrate: Poly(Ala,Glu,Lys,Tyr)6:2:5:1, 20 μg/ml

Kinase: 4 µg/ml

- Filter binding assay

MSFC membrane (Millipore)

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