

Product Information

**WEE1, GST-tagged, human
recombinant, expressed in *E. coli* cells**

Catalog Number **SRP5359**
Storage Temperature -70°C

Synonym: WEE1hu

Product Description

WEE1 is a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases that 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.¹ WEE1 is highly expressed in testis. WEE1 kinase phosphorylated the p34 (CDC2)-cyclin B complex on tyr¹⁵ and inactivated the p34 (CDC2)-cyclin B kinase.²

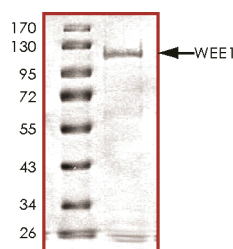
Recombinant human WEE1 (247-end) was expressed by *E. coli* cells using an N-terminal GST-tag. The gene accession number is NM_003390. It is supplied in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~115 kDa

The enzymatic activity of this product has not been determined.

Figure 1.

SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

References

1. Heald, R. et al., Human wee1 maintains mitotic timing by protecting the nucleus from cytoplasmically activated cdc2 kinase. *Cell*, **74**, 463-474 (1993).
2. Parker, L.L. et al., Inactivation of the p34cdc2-cyclin B complex by the human WEE1 tyrosine kinase. *Science*, **257**, 1955-1957 (1992).

RC,MAM 10/12-1