

# Product Information

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

Catalog Number **SRP5359**

Storage Temperature –70 °C

Synonym: WEE1hu

### Product Description

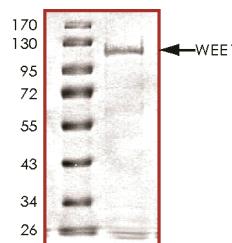
WEE1 is a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases that catalyzes the inhibitory tyrosine phosphorylation of CDC2/cyclin B kinase, and appears to coordinate the transition between DNA replication and mitosis by protecting the nucleus from cytoplasmically activated CDC2 kinase.<sup>1</sup> WEE1 is highly expressed in testis. WEE1 kinase phosphorylated the p34 (CDC2)-cyclin B complex on tyr<sup>15</sup> and inactivated the p34 (CDC2)-cyclin B kinase.<sup>2</sup>

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:  
≥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