

## Recombinant Rat Wee1 protein, GST-tagged, active

**Cat. No.** Wee1-32R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Wee1 fused with GST tag at N-terminal was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>Description</b>	Protein inhibitor of Cdk2 kinase. Wee1 is a protein tyrosine kinase that phosphorylates Cdc2 on Tyr15 and hence inactivates the CDK1 and CDK2, which facilitates in the negative regulation of entry of cells into mitosis. Increased level of wee1 stimulates Human Immunodeficiency Virus type 1 (HIV-1) Vpr induced cell cycle arrest at G2/M transition followed by apoptosis.
<b>Form</b>	Solution in 50 mM Tris-HCl, pH 7.5, 1 mM EDTA, 1 mM DTT, 10% Glycerol
<b>Molecular Mass</b>	~110 kDa
<b>Unit Definition</b>	One unit of Wee 1 activity is defined as the amount of enzyme that produces 90% inhibition of the activity of 10 units of CDK2. One unit of CDK2 will transfer 1 pmol of phosphate to histone H1 per minute at pH 7.2 and 30 centigrade.
<b>Applications</b>	Wee1, active from rat may be used to study apoptotic signaling.
<b>Storage</b>	Recombinant rat Wee 1 is stable for at least six months when stored at -70 centigrade. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Avoid repeated freeze-thaw cycles. Do not

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

store in a frost-free freezer.

## GENE INFORMATION

<b>Gene Name</b>	Wee1 wee 1 homolog (S. pombe) [ Rattus norvegicus ]
<b>Official Symbol</b>	Wee1
<b>Synonyms</b>	WEE1; wee 1 homolog (S. pombe); wee1-like protein kinase; wee1A kinase; wee1 tyrosine kinase; MGC105683;
<b>Gene ID</b>	308937
<b>mRNA Refseq</b>	NM_001012742
<b>Protein Refseq</b>	NP_001012760
<b>UniProt ID</b>	Q63802

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