

Recombinant Rat Wee1 protein, GST-tagged, active

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

SPECIFICATION

Product Overview	Recombinant Rat Wee1 fused with GST tag at N-terminal was expressed in E. coli.
Species	Rat
Source	E.coli
Description	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.
Form	Solution in 50 mM Tris-HCl, pH 7.5, 1 mM EDTA, 1 mM DTT, 10% Glycerol
Molecular Mass	~110 kDa
Unit Definition	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.
Applications	Wee1, active from rat may be used to study apoptotic signaling.
Storage	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

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store in a frost-free freezer.

GENE INFORMATION

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

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