WEE1
Recombinant Human WEE1 Active GST-His

Catalog No.	CRW003	**Quantity:**	50 µg

Alternate Names: FLJ16446, WEE1A, WEE1hu, WEE1+ homolog, wee1 tyrosine kinase, wee1-like protein kinase

Description: Human WEE1, Amino acids Q_{250}-Y_{646} (as in GenBank entry X62048)***,** N-terminally fused to GST-HIS_6-Thrombin cleavage site
***Sequence may contain documented polymorphisms Detailed sequence on request**

Concentration: 0.142 µg/µl

Gene ID: 7465

Protein Accession No: X62048

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 74,902 Da

Formulation: 50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol

Purification: One-step affinity purification using GSH-agarose

Product Identity: WEE1, was confirmed as WEE1 by specific Western Blotting using anti WEE1 antibody

Specific Activity: 2 pmol/µg×min

Method for determination of K_m value and specific activity:
• Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM $MgCl_2$
3 mM $MnCl_2$
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)
Substrate: $Poly(Ala,Glu,Lys,Tyr)_{6:2:5:1}$
(Sigma P-1152), 1.0 µg / 50 µl
Recombinant WEE1: 200 ng / 50 µl
• Filter binding assay
MSFC membrane (Millipore)

Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

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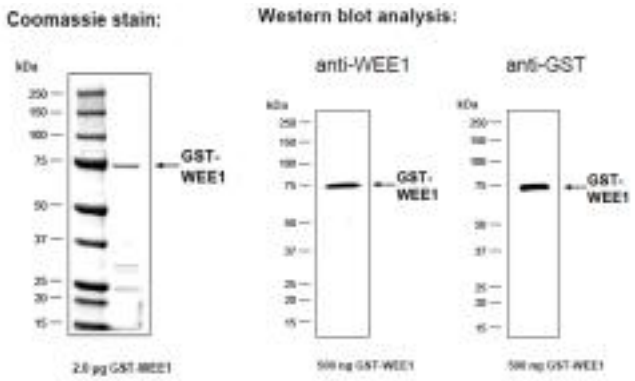
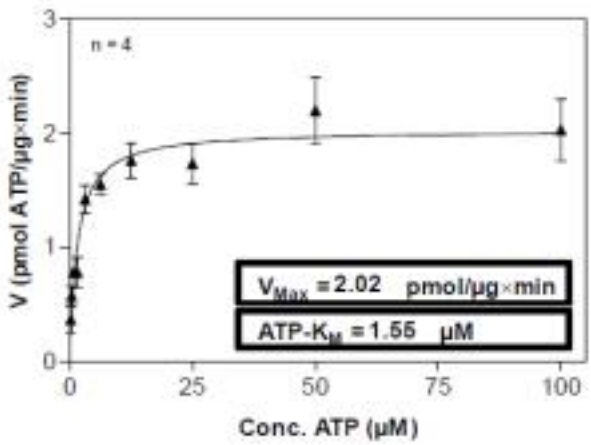


Determination of K_m value for ATP:



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