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Recombinant Human WEE1 Kinase

Catalog No.: RP03394LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	7465	P30291

Tags
No tag

Synonyms
WEE1; Wee1A kinase; WEE1hu; Wee1-like protein kinase

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
32.2 kDa	25-30 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 1 mM DTT, 150 mM NaCl. (pH 8.0). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Contact

400-999-6126

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Background

Wee1 is a nuclear kinase belonging to the Ser/Thr family of protein kinases in the fission yeast Schizosaccharomyces pombe (S. pombe). Wee1 has a molecular mass of 96 kDa and is a key regulator of cell cycle progression. Wee1 inhibits Cdk1 by phosphorylating it on two different sites, Tyr15 and Thr14. Cdk1 is crucial for the cyclin-dependent passage of the various cell cycle checkpoints. To date, there have not been many Wee1 inhibitors developed and at the clinical stage. Adavosertib (AZD1775, MK1755), developed by AstraZeneca, is a small molecule Wee1 inhibitor, and was the first of its kind to reach clinical trials.

Basic Information

Description
Recombinant Human WEE1 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met291-Lys575) of Human WEE1 (Accession #P30291) fused with No tag.

Bio-Activity
The activity of Wee1 is based on the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃.This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.
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Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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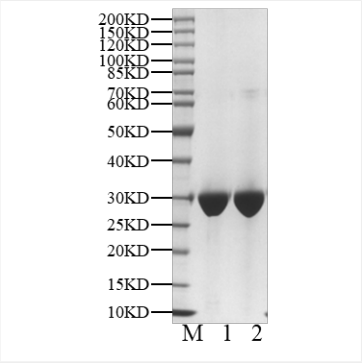
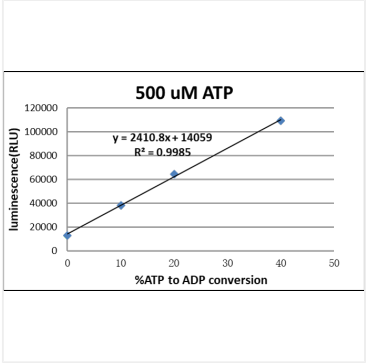
Validation Data



Recombinant Human WEE1 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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