

Datasheet for ABIN7556050  
**WEE1 Protein (AA 1-646) (His tag)**



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## Overview

Quantity:	1 mg
Target:	WEE1
Protein Characteristics:	AA 1-646
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This WEE1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant WEE1 Protein expressed in mammalian cells.
Sequence:	MSFLSRQPP PRRRAGAACT LRQKLIFSPC SDCEEEEEEE EEEGSGHSTG EDSAFQEPDS PLPPARSPTE PGPERRRSPG PAPGSPGELE EDLLLPGACP GADEAGGGAE GDSWEEEGFG SSSPVKSPAA PYFLGSSFSP VRCGGPGDAS PRGCGARRAG EGRRSPRPDH PGTPPHKTFR KLRLFDTPHT PKSLLSKARG IDSSSVKLRG SSLFMDTEKS GKREFDVRQT PQVNINPFTP DSLHSSGQ CRRRKRTYWN DSCGEDMEAS DYELEDETRP AKRITITESN MKSRYTTEFH ELEKIGSGEF GSVFKCVKRL DGCYAIKRS KKPLAGSVDE QNALREVYAH AVLGHQSHV RYFSAWAEDD HMLIQNEYCN GGSLADAISE NYRIMSYFKE AELKDLLLQV GRGLRYIHSM SLVHMDIKPS NIFISRTSIP NAASEEGDED DWASNKVMFK IGD LGHVTRI SSPQVEEGDS RFLANEVLQE NYTHLPKADI FALALTVVCA AGAEPLPRNG DQWHEIRQGR LPRIPQVLSQ EFTELLKVM IHPDPERRPSA MALVKHSVLL SASRKS AEQL RIELNAEKFK NSLLQKELKK AQMAKAAAEE RALFTDRMAT RSTTQSNRTS RLIGKKMNRS VSLTIY <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different</b>

## Product Details

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**complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: WEE1

Alternative Name: WEE1 ([WEE1 Products](#))

Background: Wee1-like protein kinase (WEE1hu) (EC 2.7.10.2) (Wee1A kinase),FUNCTION: Acts as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15' (PubMed:7743995, PubMed:8348613, PubMed:8428596, PubMed:15070733). Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase (PubMed:7743995, PubMed:8348613, PubMed:8428596). Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur (PubMed:7743995, PubMed:8348613, PubMed:8428596). Its activity increases during S and G2

## Target Details

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phases and decreases at M phase when it is hyperphosphorylated (PubMed:7743995). A correlated decrease in protein level occurs at M/G1 phase, probably due to its degradation (PubMed:7743995). {ECO:0000269|PubMed:15070733, ECO:0000269|PubMed:7743995, ECO:0000269|PubMed:8348613, ECO:0000269|PubMed:8428596}.

Molecular Weight: 71.6 kDa

UniProt: [P30291](#)

Pathways: [Cell Division Cycle, Mitotic G1-G1/S Phases, M Phase](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months