

Datasheet for ABIN7556051  
**WEE2 Protein (AA 1-567) (His tag)**



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## Overview

Quantity:	1 mg
Target:	WEE2
Protein Characteristics:	AA 1-567
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This WEE2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant WEE2 Protein expressed in mammalian cells.
Sequence:	<p>MDDKDIDKEL RQKLNFSYCE ETEIEGQKKV EESREASSQT PEKGEVDSE AKGTPPWTPPL  SNVHELDTSS EKDKESPDQI LRTPVSHPLK CPETPAQPDS RSKLLPSDSP STPKTMLSRL  VISPTGKLPS RGPKHLKLTP APLKDEMTSL ALVNINPFTP ESYKKLFLQS GGKRKIRGDL  EEAGPEEGKG GLPAKRCVLR ETNMASRYEK EFLEVEKIGV GEFGTVYKCI KRLDGCVYAI  KRSMKTFTTEL SNENSALHEV YAHAVLGHHH HVVRYSSWA EDDHMIIQNE YCNGGSLQAA  ISENTKSGNH FECPKLKDL LQISLGLNYI HNSSMVHLDI KPSNIFICHK MQSESSGVIE  EVENEADWFL SANVMYKIGD LGHATSINKP KVEEGDSRFL ANEILQEDYR HLPKADIFAL  GLTIAVAAGA ESLPTNGAAW HHIRKGNFPD VPQELSESFS SLLKNMIQPD AEQRPSAAAL  ARNTVLRPSL GKTEELQQQL NLEKFKTATL ERELREAQQA QSPQGYTHHG DTGVSGTHTG  SRSTKRLVGG KSARSSSFTS GEREPLH <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>

## Product Details

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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	WEE2
Alternative Name:	WEE2 ( <a href="#">WEE2 Products</a> )
Background:	Wee1-like protein kinase 2 (EC 2.7.10.2) (Wee1-like protein kinase 1B) (Wee1B kinase),FUNCTION: Oocyte-specific protein tyrosine kinase that phosphorylates and inhibits CDK1/CDC2 and acts as a key regulator of meiosis during both prophase I and metaphase II (PubMed:29606300). Required to maintain meiotic arrest in oocytes during the germinal vesicle (GV) stage, a long period of quiescence at dictyate prophase I, by phosphorylating CDK1 at 'Tyr-15', leading to inhibit CDK1 activity and prevent meiotic reentry. Also required for metaphase II exit during egg activation by phosphorylating CDK1 at 'Tyr-15', to ensure exit from meiosis in oocytes and promote pronuclear formation (By similarity). {ECO:0000250 UniProtKB:Q66JT0, ECO:0000269 PubMed:29606300}.
Molecular Weight:	62.9 kDa

## Target Details

UniProt: [P0C1S8](#)

Pathways: [M Phase](#)

## Application Details

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

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