Datasheet for ABIN3096407

WEE2 Protein (AA 1-567) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	WEE2
Protein Characteristics:	AA 1-567
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This WEE2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	MDDKDIDKEL RQKLNFSYCE ETEIEGQKKV EESREASSQT PEKGEVQDSE AKGTPPWTPL SNVHELDTSS EKDKESPDQI LRTPVSHPLK CPETPAQPDS RSKLLPSDSP STPKTMLSRL VISPTGKLPS RGPKHLKLTP APLKDEMTSL ALVNINPFTP ESYKKLFLQS GGKRKIRGDL EEAGPEEGKG GLPAKRCVLR ETNMASRYEK EFLEVEKIGV GEFGTVYKCI KRLDGCVYAI KRSMKTFTEL SNENSALHEV YAHAVLGHHP HVVRYYSSWA EDDHMIIQNE YCNGGSLQAA ISENTKSGNH FEEPKLKDIL 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 **Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

Product Details

Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human WEE2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	WEE2
Alternative Name:	WEE2 (WEE2 Products)
Background:	Oocyte-specific protein tyrosine kinase that phosphorylates and inhibits CDK1 and acts as a key regulator of meiosis during both prophase I and metaphase II. 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}.
Molecular Weight:	63.9 kDa Including tag.
UniProt:	P0C1S8
Pathways:	M Phase

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process