

Product datasheet for PH325964

WEE2 (NM_001105558) Human Mass Spec Standard

Product data:

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|---------------------------------------|---|
| Product Type: | Mass Spec Standards |
| Description: | WEE2 MS Standard C13 and N15-labeled recombinant protein (NP_001099028) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC225964 |
| Predicted MW: | 62.7 kDa |
| Protein Sequence: | >RC225964 representing NM_001105558 Red=Cloning site Green=Tags(s) |

MDDKDIDKELRQKLNFSYCEETEIEGQKKVEESREASSQTPEKGEVQDSEAKGTPPWTPLSNVHIELDTSS
EKDKESPDQILRTPVSHPLKCPETPAQPDSPSKLLPSDSPSTPKTMLSRLVISPTGKLPSPGPKHLKLT
APLKDEMTSLALVNINPFTPEYKFLQSGGKRKIRGDLEEAGPEEGKGLPAKRCVLRNEMASRYEK
EFLEVEKIGVGEFGTVYKCIKRLDGCVYAIKRSMTFTTELSNENSALHEVYAHAVLGHHPHVRYSSWA
EDDHMIIQNEYCNGSLQAAISENTKSGNHFEPPKLDILLQISLGLNYIHNSSMVHLDIKPSNIFICHK
MQSESSGVIEEVENEADWFLSANVMYKIGDLGHATSINKPKVEEGDSRFLANEILQEDYRHLPKADIFAL
GLTIAVAAGAESLPTNGAAWHHIRKGNFPDVPQELSEFSLLKNMIQPDAEQRPSAAALARNTVLRPSL
GKTEELQQQLNLEKFKTATLERELREAQQAQSPQGYTHHGDTGVSHTGSRSTKRLVGGKSARSSSFTS
GEREPLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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|------------------|--|
| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | NP_001099028 |
| RefSeq ORF: | 1701 |
| Synonyms: | OOMD5; WEE1B |



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Locus ID: 494551

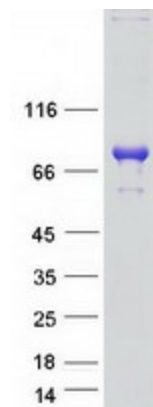
UniProt ID: [P0C1S8](#)

Cytogenetics: 7q34

Summary: 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).[UniProtKB/Swiss-Prot Function]

Protein Pathways: Cell cycle

Product images:



Coomassie blue staining of purified WEE2 protein (Cat# [TP325964]). The protein was produced from HEK293T cells transfected with WEE2 cDNA clone (Cat# [RC225964]) using MegaTran 2.0 (Cat# [TT210002]).