# Recombinant Human, CDC37 His-tagged

**Cat. No.** CDC37-798H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Total 388 AA. MW: 45.71 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted). |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | Hsp90 co-chaperone Cdc37 is a protein that in humans is encoded by the CDC37 gene. The protein encoded by this gene is highly similar to Cdc 37, a cell division cycle control protein of Saccharomyces cerevisiae. This protein is a molecular chaperone with specific function in cell signal transduction. It has been shown to form complex with Hsp90 and a variety of protein kinases including CDK4, CDK6, SRC, RAF1, MOK, as well as eIF-2 alpha kinases. It is thought to play a critical role in directing Hsp90 to its target kinases. |
| **Form** | Filtered (0,4 μm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5 |
| **Reconstitution** | Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture. |
| **Applications** | Western blotting |
| **Quality Control Test** | BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein |

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| **Sequences of amino acids** | MKHHHHHHAS MVDYSVWDHI EVSDDEDETH PNIDTASLFR WRHQARVERM EQFQKEKEEL DRGCRECKRK VAECQRKLKE LEVAEGGKAE LERLQAEAQQ LRKEERSWEQ KLEEMRKKEK SMPWNVDTLS KDGFSKSMVN TKPEKTEEDS EEVREQKHKT FVEKYEKQIK HFGMLRRWDD SQKYLSDNVH LVCEETANYL VIWCIDLEVE EKCALMEQVA HQTIVMQFIL ELAKSLKVDP RACFRQFFTK IKTADRQYME GFNDELEAFK ERVRGRAKLR IEKAMKEYEE EERKKRLGPG GLDPVEVYES LPEELQKCFD VKDVQMLQDA ISKMDPTDAK YHMQRCIDSG LWVPNSKASE AKEGEEAGPG DPLLEAVPKT GDEKDVSV |
| **Storage** | Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week. Lyophilized protein is unstable at 4°C and at RT. |

## GENE INFORMATION

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| **Gene Name** | CDC37 cell division cycle 37 homolog (S. cerevisiae) [ Homo sapiens ] |
| **Official Symbol** | CDC37 |
| **Synonyms** | CDC37; cell division cycle 37 homolog (S. cerevisiae); CDC37 cell division cycle 37 homolog (S. cerevisiae); CDC37A; P50CDC37; p50Cdc37; cell division cycle 37 protein; CDC37 cell division cycle 37 homolog; CDC37 (cell division cycle 37, S. cerevisiae, homolog); Hsp90 co-chaperone Cdc37; Hsp90 chaperone protein kinase-targeting subunit; cell division cycle 37 homolog (S. cerevisiae) |
| **Gene ID** | 11140 |
| **mRNA Refseq** | NM_007065 |

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| **Protein Refseq** | NP_008996 |
| **MIM** | 605065 |
| **UniProt ID** | Q16543 |
| **Chromosome Location** | 19p13.2 |
| **Function** | Hsp90 protein binding; unfolded protein binding. |
| **Protein CDC37 PDB 1us7** | |

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