

Recombinant Human, CDC37 His-tagged

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

SPECIFICATION

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 <i>Saccharomyces cerevisiae</i> . 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

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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