

Recombinant Human Cell Division Cycle 37 Homolog (S. cerevisiae)

Cat. No. CDC37-331H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant CDC37 protein was expressed in E.coli and purified by using conventional chromatography techniques (378 aa, 44.4 kDa).
Species	Human
Source	E.coli
Description	CDC37, an essential gene in <i>Saccharomyces cerevisiae</i> , interacts genetically with multiple protein kinases. Cdc37 associates with the heat-shock protein 90 (Hsp90) molecular chaperone as one of several auxiliary proteins that are collectively referred to as Hsp90 co-chaperones. Cdc37 up-regulation is a common early event in some localized human cancers.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Molecular Weight	44.4 kDa (378aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).
Sequence	MVDYSVWDHI EVSDDEDETH PNIDTASLFR WRHQARVERM EQFQKEKEEL

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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 GDEKDVS

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

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_007065.3

Protein Refseq

NP_008996.1

MIM

605065

UniProt ID

Q16543

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Chromosome Location	19p13.2
Function	Hsp90 protein binding; unfolded protein binding.

PDBrendering based on 1us7. Available structures: 1us7.

