

Recombinant Human CDC37

Cat. No. CDC37-26223TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant CDC37 protein was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-378aa
Description	The protein encoded by this gene is highly similar to Cdc 37, a cell division cycle control protein of <i>Sacchomyces 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, RAF-1, MOK, as well as eIF2 alpha kinases. It is thought to play a critical role in directing Hsp90 to its target kinases.
Form	Liquid in 20mM Tris pH 8.0, 10% glycerol Molecular Weight: 44.4kDa (378aa)
Molecular Mass	44.4Da (378aa), confirmed by MALDI-TOF.
AA Sequence	MVDYSVWDHI EVSDDEDETH PNIDTASLFR WRHQARVERM EQFQKEKEEL DRGCRECKRK VAECQRKLKE LEVAEGGKAE LERLQAEAQQ LRKEERSWEQ KLEEMRKKEK SMPWNVDTLS KDGFSKSMVN TKPEKTEEDS EEVREQKHKT FVEKYEQIK HFGMLRRWDD SQKYLSDNVH LVCEETANYL VIWCIDLEVE EKCALMEQVA HQTIVMQFIL ELAKSLKVDP RACFRQFFTK IKTADRQYME

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GFNDELEAFK ERVRGRAKLR IEKAMKEYEE EERKKRLGPG GLDPVEVYES
LPEELQKCFD VKDVQMLQDA ISKMDPTDAK YHMQRCIDSG LWVPNSKASE
AKEGEEAGPG DPLLEAVPKT GDEKDVS

Endotoxin	< 1.0 eu per 1 microgram of protein (determined by lal)
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	CDC37 cell division cycle 37 [Homo sapiens (human)]
Official Symbol	CDC37
Synonyms	CDC37; P50CDC37; cell division cycle 37 homolog (S. cerevisiae); CDC37 (cell division cycle 37, S. cerevisiae, homolog); CDC37 cell division cycle 37 homolog (S. cerevisiae); CDC37 cell division cycle 37 homolog; Hsp90 co-chaperone Cdc37; Hsp90 chaperone protein kinase-targeting subunit; p50Cdc37; CDC37A
Gene ID	11140
mRNA Refseq	NM_007065
Protein Refseq	NP_008996

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MIM	605065
UniProt ID	Q16543
Chromosome Location	19p13.2
Pathway	PI3K-Akt signaling pathway; Signal Transduction; Signaling by constitutively active EGFR
Function	Hsp90 protein binding; Heat shock protein binding; protein binding; unfolded protein binding

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