



Product Datasheet

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| Product Name | Cell Division Cycle 37 Human Recombinant |
| Cata No | CB501081 |
| Source | <i>Escherichia Coli.</i> |
| Synonyms | P50CDC37, CDC-37, CDC37, Hsp90 co-chaperone Cdc37, Hsp90 chaperone protein kinase-targeting subunit, CDC37A, Cell Division Cycle 37. |

Description

CDC37 is an essential protein in *Saccharomyces cerevisiae* and is a molecular chaperone with precise function in cell signal transduction. CDC37 forms a complex/associates with Hsp90 molecular chaperone as one of several auxiliary proteins that are collectively referred to as Hsp90 co-chaperones. CDC37 also forms complex with a number of protein kinases such as CDK4, CDK6, SRC, RAF-1, MOK, as well as eIF2 alpha kinases. CDC34 is involved in directing Hsp90 to its target kinases. CDC37 up-regulation is a common early event in some localized human cancers. CDC37 is necessary for maintaining prostate tumor cell growth and represents a novel target in the exploration for multitargeted therapies. CDC37 plays a role in regulating Hsp90 ATPase activity. CDC37 binds to Akt and HSP90 in the signal transduction pathway in human tumor cells. Tnf-induced recruitment and activation of the IKK complex require Cdc37 and Hsp90. CDC37 and heat shock protein 90 bind specifically to the kinase domain of LKB1. CDC37 Human Recombinant produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 378 amino acids and having a molecular mass of 44.4 kDa.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

The CDC37 protein solution contains 20mM Tris-HCl pH-8 & 10% glycerol.

Stability

CDC37 although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MVDYSVWDHI EVSDDDEETH PNIDTASLFR
WRHQARVERM EQFQKEKEEL DRGCRECKRK
VAECQRKLKE LEVAEGGKAE LERLQAEAQQ
LRKEERSWEQ KLEEMRKKEK SMPWNVDTLS
KDGFSKSMVN TKPEKTEEDS EEVREQKHKT
FVEKYEQIK HFGMLRRWDD SQKYLSDNVH
LVCEETANYL VIWCIDLEVE EKCALMEQVA
HQTIVMQFIL ELAKSLKVDP RACFRQFFTK
IKTADRQYME GFNDELEAFK ERVRGRAKLR
IEKAMKEYEE EERKKRLGPG GLDPVEVYES
LPEELQKCFD VKDVQMLQDA ISKMDPTDAK
YHMQRCIDSG LWVPNSKASE AKEGEEAGPG
DPLLEAVPKT GDEKDVSV.