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CDC37 Human

Description: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.

Catalog #:PRPS-471

Synonyms:P50CDC37, CDC-37, CDC37, Hsp90 co-chaperone Cdc37, Hsp90 chaperone protein kinase-targeting subunit, CDC37A, Cell Division Cycle 37.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MVDYSVWDHI EVSDDEDETH PNIDTASLFR WRHQARVERM EQFQKEKEEL DRGCRECKRK VAECQRKLKE LEVAEGGKAE LERLQAEAQQ LRKEERSWEQ KLEEMRKKEK SMPWNVDTLS KDGFSKSMVN TKPEKTEEDS EEVREQKHKT FVEKYEKQIK HFGMLRRWDD SQKYLSDNVH LVCEETANYL VIWCIDLEVE EKCALMEQVA HQTIVMQFIL ELAKSLKVDP RA

Purity: Greater than 95.0% as determined by SDS-PAGE.

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

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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.

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