

CDC37 Protein, Human (sf9, GST)

Cat. No.:	HY-P75364
Synonyms:	Hsp90 co-chaperone Cdc37; CDC37; CDC37A
Species:	Human
Source:	Sf9 insect cells
Accession:	Q16543 (M1-V378)
Gene ID:	11140
Molecular Weight:	Approximately 70.7 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 100 mM NaCl, 0.5 mM GSH, 0.5 mM PMSF, 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The CDC37 protein serves as a co-chaperone with a pivotal role in facilitating the interaction between numerous kinases and the Hsp90 complex, leading to the stabilization and enhanced activity of these kinases. It functions by inhibiting HSP90AA1 ATPase activity. CDC37 is likely a part of multiple protein complexes, including those containing chaperones HSP90 and HSP70, co-chaperones STIP1/HOP, PPP5C, PTGES3/p23, and client proteins like TSC2, CDK4, AKT, RAF1, and NR3C1. Another complex involving CDC37 comprises chaperones HSP90 and HSP70, co-chaperones PPP5C and TSC1, and client proteins TSC2, CDK4, AKT, RAF1, and NR3C1, but notably lacking STIP1/HOP and PTGES3/p23. CDC37 also forms a distinct complex with Hsp90/HSP90AB1 and CDK6. Its interactions extend to various proteins, including HSP90AA1, AR, CDK4, CDK6, EIF2AK1, RB1, KSR1, and FLCN, FNIP1, and FNIP2. This diverse network of interactions underscores the versatility of CDC37 in regulating the stability and activity of a wide array of kinases and client proteins.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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