Recombinant CDC37 protein (His tag)

Catalog Number	547366
Synonyms	Hsp90 chaperone protein kinase-targeting subunit; p50Cdc37
Species	Human
Expression System	E. coli
Accession	Q16543
Molecular Weight	Predictes a molecular mass of 42.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 52 kDa band.

Product Information

Sequence Region	1-344
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-344 aa (Q16543) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant human Hsp90 co-chaperone Cdc37 fragment (amino acids 1-344), a high-quality protein product designed for structural and biochemical studies. This fragment represents a stable and soluble unit of the full-length protein, ideal for investigating kinase recruitment and Hsp90 complex regulation in cellular processes. Cdc37 is a critical co-chaperone in human cells that binds to numerous kinases and facilitates their interaction with the Hsp90 chaperone complex, thereby stabilizing and promoting kinase activity. It functions by inhibiting the ATPase activity of HSP90AA1, ensuring proper kinase folding and function. Cdc37 is primarily localized in the cytoplasm, where it plays a key role in cellular signaling and protein homeostasis, making it a significant target for research in cancer and stress response pathways.