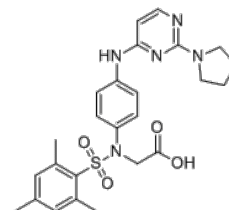


Product Name : DDO-5936
Cat. No. : PC-73076
CAS No. : 2355377-13-6
Molecular Formula : C₂₅H₂₉N₅O₄S
Molecular Weight : 495.598
Target : Heat Shock Protein (HSP)
Solubility : 10 mM in DMSO



Biological Activity

DDO-5936 (DDO5936) is a cell-active, specific small-molecule inhibitor of **Hsp90-Cdc37** protein-protein interaction (PPI) without ATPase inhibition, binds to Hsp90 with K_d of 3.86 μM.

DDO-5936 exhibits little effect on Hsp90 ATPase activity, DDO-5936 targets a surface binding site on Hsp90 to inhibit the Hsp90-Cdc37 PPI.

DDO-5936 binding affinity was remarkably decreased for the E47A mutant (K_D > 100 μM) and moderately lower for the R46A mutant (K_D = 6.53 μM) and Q133A mutant (K_D = 5.18 μM).

DDO-5936 represses cell proliferation through a strong correlation with the Hsp90-Cdc37 expression level, and selectively down-regulates kinase clients of Hsp90, arrests the cell cycle in HCT116 cells in a Cdc37-dependent manner.

DDO-5936 (50-100 mg/kg, ip) dose-dependently impairs the growth of xenografted HCT116 cells in nude mice.

References

Lei Wang, et al. *Sci Adv.* 2019 Sep 18;5(9):eaax2277.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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