

## **Data Sheet**

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 Product Name
 :
 DDO-5936

 Cat. No.
 :
 PC-73076

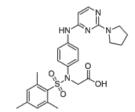
 CAS No.
 :
 2355377-13-6

 Molecular Formula
 :
 C<sub>25</sub>H<sub>29</sub>N<sub>5</sub>O<sub>4</sub>S

 Molecular Weight
 :
 495.598

Target : Heat Shock Protein (HSP)

**Solubility**:



## **Biological Activity**

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

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 (KD > 100  $\mu$ M) and moderately lower for the R46A mutant (KD =6.53  $\mu$ M) and Q133A mutant (KD=5.18  $\mu$ M).

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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