

## Product Data Sheet

Product Name: WRX606  
Cat. No.: GC74689

### Chemical Properties

Cas. No. 899937-47-4

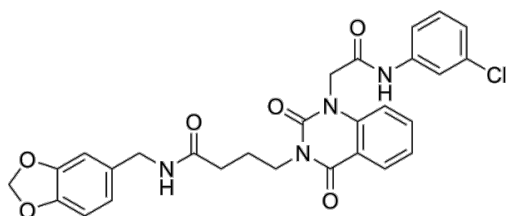
Formula  $C_{28}H_{25}ClN_4O_6$  M.Wt 548.97

Solubility DMSO : 25 mg/mL (45.54 mM; ultrasonic and warming and heat to 60°C) Storage 4°C, sealed storage, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



### Background

WRX606 is an inhibitor for mTOR complex 1 (mTORC1). WRX606 inhibits the phosphorylation of mTORC1 substrate S6 kinase 1 S6K1 ( $IC_{50}=10$  nM), and the phosphorylation of the eukaryotic translation initiation factor 4E binding protein (p-4E-BP1) ( $IC_{50}=0.27$   $\mu$ M) in MCF-7. WRX606 exhibits cytotoxicity to HepG2 with  $IC_{50}$  of 17 nM. WRX606 exhibits antitumor efficacy in mouse models.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### References:

[1]. Shams R, et al., In Silico and In Cell brid Selection of Nonrapalog Ligands to Allosterically Inhibit the Kinase Activity of mTORC1. J Med Chem. 2022 Jan 27;65(2):1329-1341.

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