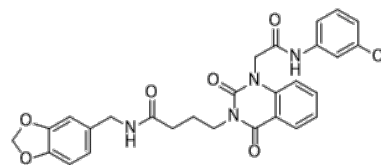


Product Name : WRX606
Cat. No. : PC-27858
CAS No. : 899937-47-4
Molecular Formula : C₂₈H₂₅ClN₄O₆
Molecular Weight : 548.98
Target : mTOR
Solubility : 10 mM in DMSO



Biological Activity

WRX606 is an orally active, allosteric inhibitor of mTOR complex 1 (**mTORC1**) with K_d of 1.3 μM, forms a ternary complex with FK506-binding protein-12 (FKBP12) and FKBP-rapamycin-binding (FRB) domain of mTOR.

WRX606 inhibits the phosphorylation of not only the ribosomal protein S6 kinase 1 (S6K1, IC₅₀=10 nM) but also eIF4E-binding protein-1 (4E-BP1, IC₅₀=0.27 μM).

WRX606 efficiently suppressed tumor growth in mice without promotion of metastasis.

WRX606 effectively inhibits the replication of both Influenza A virus (IC₅₀=12 nM) and human coronavirus 229E.

WRX606 affects broad stages of the viral life cycle leading up to release.

References

Shams R, et al. *J Med Chem*. 2022 Jan 27;65(2):1329-1341.

Yamada T, et al. *Microb Pathog*. 2026 Aug 20;220:108786.

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

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