

Product Datasheet

MSC2504877

Catalog No. **BP-02156** · CAS **1460286-21-8** · Form **free base** · Physical state **other** · Color **Off-white to light yellow** · Version **1.0** · Revision **2026-09-04**

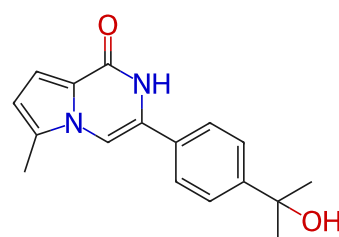
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Target PARP	Research area Cancer
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Molecular formula **C₁₇H₁₈N₂O₂**

Molecular weight **282.3370**

STRUCTURE



DESCRIPTION

MSC2504877 is a novel small molecule selective tankyrase inhibitor with IC₅₀ of 0.7/0.8 nM against TNKS1/2, shows 771-fold selectivity for TNKS1 over PARP1 (IC₅₀=0.54 μM).

BIOLOGICAL ACTIVITY

In Vitro

MSC2504877 (1, 3, 10 μM; 24 h) increases the expression of AXIN2 and TNKS protein levels and decreases β-catenin levels in APC mutant COLO320DM colorectal tumor cells.

MSC2504877 (0-100 μM; 5 days) inhibits the survival of APC^{-/-} cells and COLO320DM cells.

MSC2504877 (1 μM; 24 h) combinant with albociclib (HY-50767) (0.03 μM) induces cell cycle arrest at G1 phase.

In Vivo

MSC2504877 (30 mg/kg; p.o.; once) inhibits TNKS and Wnt signalling in mice.

MSC2504877 (30 mg/kg+ palbociclib (HY-50767) 150 mg/kg; p.o.; once) suppresses hyperproliferation in Apc defective cells in vivo.

SOLUBILITY

Soluble in DMSO 125 mg/mL

REFERENCES

[1]. Menon, Malini et al. A novel tankyrase inhibitor, MSC2504877, enhances the effects of clinical CDK4/6 inhibitors. Scientific reports vol. 9,1 201. 17 Jan. 2019, doi:10.1038/s41598-018-36447-4

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