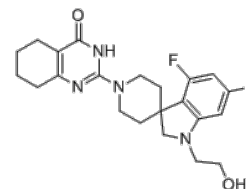


Product Name : RK-287107
Cat. No. : PC-35703
CAS No. : 2171386-10-8
Molecular Formula : C₂₂H₂₆F₂N₄O₂
Molecular Weight : 416.473
Target : PARP
Solubility : 10 mM in DMSO



Biological Activity

RK-287107 (RK287107) is a novel potent, **tankyrase**-specific inhibitor with IC₅₀ of 14.3 and 10.6 nM for tankyrase-1 (**TNKS1**) and tankyrase-2 (**TNKS2**) respectively, shows no activity against PARP-1.

RK-287107 shows 4-8-fold more potency than G007-LK; causes Axin2 accumulation and downregulates β-catenin, T-cell factor/lymphoid enhancer factor reporter activity and the target gene expression in colorectal cancer cells harboring the shortly truncated APC mutations.

RK-287107 inhibits the growth of APC-mutated (β-catenin-dependent) colorectal cancer COLO-320DM and SW403 cells but not the APC-wild (β-catenin-independent) colorectal cancer RKO cells.

RK-287107 suppresses COLO-320DM tumor growth in NOD-SCID mice (intraperitoneal or oral administration).

References

Mizutani A, et al. *Cancer Sci.* 2018 Sep 20. doi: 10.1111/cas.13805.

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

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