

Product Data Sheet

Product Name: RK-287107

Cat. No.: GC19505

Chemical Properties

Cas. No. 2171386-10-8

SMILES O=C1NC(N2CCC3(CC2)CN(CCO)C4=C3C(F)=CC(F)=C4)=NC5=C1CCCC5

Formula $C_{22}H_{26}F_2N_4O_2$

M.Wt 416.46

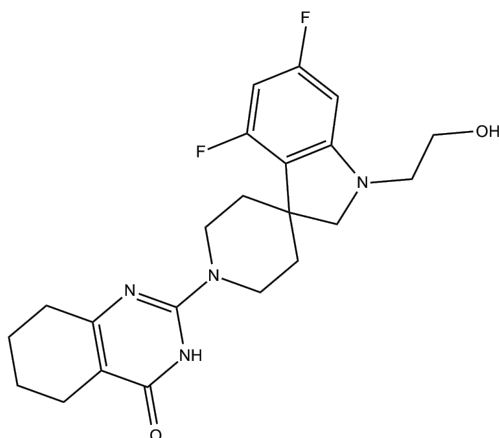
Solubility Soluble in DMSO

Storage 4°C, protect from light

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

RK-287107 is a potent and specific tankyrase inhibitor with IC₅₀s of 14.3 and 10.6 nM for tankyrase-1 and tankyrase-2, respectively. RK-287107 blocks colorectal cancer cell growth[1].

RK-87107 (0.01-10 μM; 12 hours) shows an antiproliferative effect on colorectal cancer cells harboring short adenomatous polyposis coli (APC) mutations. The 50% growth inhibition (GI₅₀) value of RK-287107 on COLO-320DM cells is 0.449 μM[1].

RK-287107 (0.03-10 μM; 16 hours) causes accumulation of tankyrase and Axin1/2[1].

RK-287107 (0.03-10 μM; 16 hours) also downregulates β-catenin signaling in cultured cells[1].

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

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RK-287107 (100 and 300 mg/kg; i.p. administration; once per day; 5-days on/ 2-days off schedule for 2 weeks) inhibits tumor growth in a mouse xenograft model[1].

Reference:

[1]. Mizutani A, et al. RK-287107, a potent and specific tankyrase inhibitor, blocks colorectal cancer cell growth in a preclinical model. Cancer Sci. 2018 Dec;109(12):4003-4014.

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