

Product Data Sheet

Product Name: Polθ/PARP-IN-1

Cat. No.: GC73943

Chemical Properties

Cas. No.

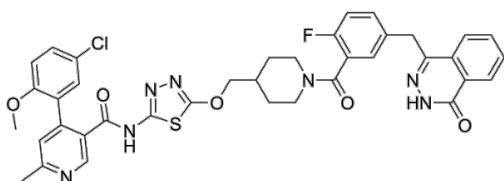
Formula $C_{38}H_{33}ClFN_7O_5S$ M.Wt 754.23

Solubility DMSO : 50 mg/mL (66.29 mM);
ultrasonic and warming and heat to 60°C) Storage -20°C

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

Polθ/PARP-IN-1 (compound 25d) is a potent dual DNA polymerase theta (Polθ) and PARP inhibitor with IC₅₀ values of 45.6, 5.4 nM, respectively. Polθ/PARP-IN-1 shows antiproliferative activity. Polθ/PARP-IN-1 induces apoptosis and cell cycle arrest at G2/M phase, causes DNA damage. Polθ/PARP-IN-1 shows anti-tumor activity.

Polθ/PARP-IN-1 (compound 25d) (0-80 μM; 3 days) shows antiproliferative activity with IC₅₀s of

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

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20.9, 2.7, 8.9, 2.9, 18.9, >80 μ M for HCC1937, MDA-MB-436, HCT116, SW48, SKOV-3, MCF-10A cells, respectively[1]. Pol θ /PARP-IN-1 (compound 25d) (2 μ M; 3 days) induces apoptosis and cell cycle arrest at G2/M phase, causes DNA damage[1].

Pol θ /PARP-IN-1 (20, 40 mg/kg; i.p.; daily for 21 consecutive days) inhibits tumor growth in MDA-MB-436 xenograft model[1].

References:

[1]. Ma L, et al. Discovery and Proof of Concept of Potent Dual Pol θ /PARP Inhibitors for Efficient Treatment of Homologous Recombination-Deficient Tumors. J Med Chem. 2024 Feb 20.

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