

Product Data Sheet

Product Name: CAY10744

Cat. No.: GC46113

Chemical Properties

Cas. No. 2375613-31-1

SMILES OC1=CC=CC2=C1CC3=C2N=C(C4=C(Cl)C=CC=C4)C=C3C5=CC=C(O)C=C5

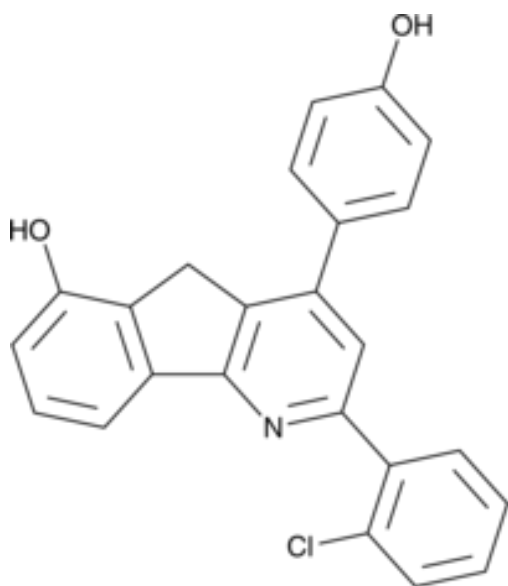
Formula C₂₄H₁₆ClNO₂ M.Wt 385.8

Solubility DMF: 20mg/mL, DMF:PBS (pH 7.2) Storage Store at -20°C
(1:2): 0.3mg/mL, DMSO:
5mg/mL, Ethanol: 12mg/mL

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

CAY10744 is a topoisomerase II- α poison.¹ It inhibits topoisomerase II- α by 78.9% when used at a concentration of 20 μ M. CAY10744 is selective for topoisomerase II- α over topoisomerase I providing 100 and 0% inhibition, respectively, at 100 μ M. It inhibits proliferation of HCT15 colon, T47D breast,

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

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DU145 prostate, and HeLa cervical cancer cells (IC₅₀s = 0.014, 0.00267, 0.072, and 2.46 μ M, respectively). CAY10744 induces apoptosis in T47D cells when used at concentrations of 10 and 30 μ M. CAY10744 (12 mg/kg per day) reduces tumor growth in an MDA-MB-231 orthotopic mouse model of breast cancer.

[1. Kadayat, T.M., Park, S., Shrestha, A., et al. Discovery and biological evaluations of halogenated 2,4-diphenyl indeno[1,2-b]pyridinol derivatives as potent topoisomerase IIa-targeted chemotherapeutic agents for breast cancer. J. Med. Chem. 62, 8194-8234 (2019).

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