

Product Data Sheet

Product Name: CAY10735

Cat. No.: GC45403

Chemical Properties

Cas. No. 2251753-58-7

SMILES C=C1C(C(C)(C)[C@@](CC[C@]2(C)[C@]3([H])CC=C4[C@@]2(C)CC[C@]5(C)(NCCN C(C6(CC6)C(NC7=CC=C(F)C=C7)=O)=O)=O)[C@@]4([H])CC(C)(C)CC5)([H])[C@]3(C)C1)=O

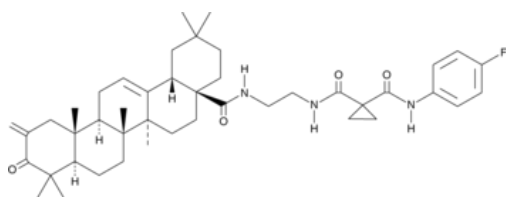
Formula C₄₄H₆₀FN₃O₄ M.Wt 714

Solubility Chloroform: Soluble, Ethanol: Soluble Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

CAY10735 is an anticancer compound.¹ It inhibits proliferation in a panel of melanoma and breast, pancreatic, and lung cancer cell lines (IC₅₀s = 0.674-11.56 μM). CAY10735 inhibits migration of and the epithelial-to-mesenchymal transition (EMT) in A375 and B16/F10 melanoma cells in vitro in a concentration-dependent manner. It reduces the viability of spheroid A375 and B16/F10 cells (IC₅₀s = 3.04 and 1.24 μM, respectively) and increases production of reactive oxygen species (ROS) in these cells in a concentration-dependent manner. CAY10735 (5 mg/kg) reduces tumor growth in B16/F10 melanoma and Lewis lung carcinoma mouse models and an A375 mouse xenograft model.

References

1. Liu, X., Li, B., Zhang, Z., et al. Synthesis and discovery novel anti-cancer stem cells compounds

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

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derived from the natural triterpenoic acids. J. Med. Chem. 61(23), 10814-10833 (2018).

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