

Product Data Sheet

Product Name: MI-1061
Cat. No.: GC36605

Chemical Properties

Cas. No. 1410737-34-6

SMILES O=C(O)C1=CC=C(NC([C@H](N2)[C@H](C3=CC=CC(Cl)=C3F)[C@]4(C(NC5=C4C=CC(Cl)=C5)=O)C62CCCCC6)=O)C=C1

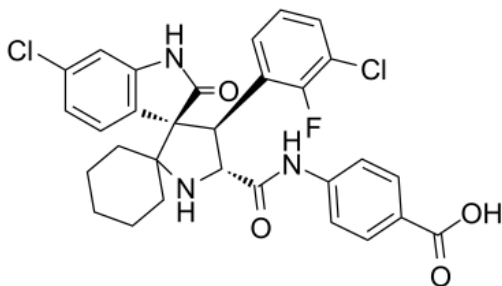
Formula $C_{30}H_{26}Cl_2FN_3O_4$ M.Wt 582.45

Solubility DMSO: 300 mg/mL (515.07 mM) Storage Store at -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

MI-1061 is a potent, orally bioavailable, and chemically stable MDM2 (MDM2-p53 interaction) inhibitor (IC₅₀=4.4 nM; K_i=0.16 nM). MI-1061 potently activates p53, induces apoptosis, and has anti-tumor activity[1]. IC₅₀: 4.4 nM (MDM2)[1]K_i: 0.16 nM (MDM2)

MI-1061 achieves IC₅₀=100 and 250 nM in the SJSA-1 and HCT-116 p53+/+ cell lines, respectively, and has IC₅₀>10000 nM in the p53 knockout cell line HCT-116 p53-/-cell line[1].

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

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MI-1061 is capable of achieving tumor regression in the SJSA-1 xenograft tumor model in mice with oral administration[1].

[1]. Aguilar A, et al. Design of chemically stable, potent, and efficacious MDM2 inhibitors that exploit the retro-mannichring-opening-cyclization reaction mechanism in spiro-oxindoles. J Med Chem. 2014 Dec 26;57(24):10486-98.

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