

Product Data Sheet

Product Name: CAY10681

Cat. No.: GC43189

Chemical Properties

Cas. No. 1542066-69-2

SMILES O=C1N(CCCN2C=CN=C2)C(C3=CC=C(Br)C=C3)C4=C1N(CC5=CC=CC=C5)N=C4C6=CC=CC=C6

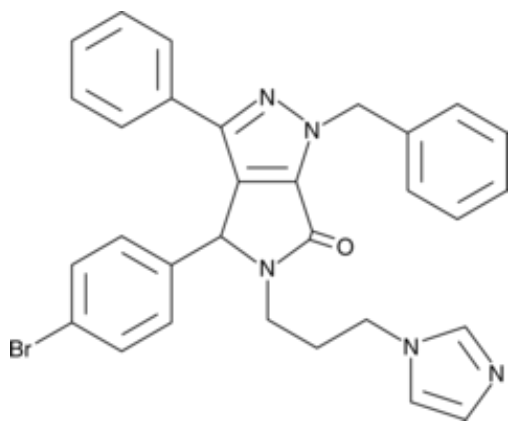
Formula C₃₀H₂₆BrN₅O M.Wt 552.5

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:3): 0.25 mg/ml
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

Inactivation of the tumor suppressor p53 commonly coincides with increased signaling through NF-κB in cancer. CAY10681 is a dual modulator of p53-MDM2 interaction and NF-κB signaling. It potently binds MDM2 (K_i = 250 nM), reducing MDM2-mediated turnover of p53. CAY10681 also inhibits phosphorylation of IκBα and dose-dependently reduces nuclear accumulation of p65. It blocks the

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

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proliferation of cancer cell lines (IC₅₀s range from 33 to 37 μ M). CAY10681 exhibits excellent oral bioavailability and inhibits tumor growth in A549 xenografts in nude mice.

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