

Product Data Sheet

Product Name: CAY10682

Cat. No.: GC43190

Chemical Properties

Cas. No. 1542066-74-9

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

Formula C₃₀H₂₅BrFN₅O

M.Wt 570.5

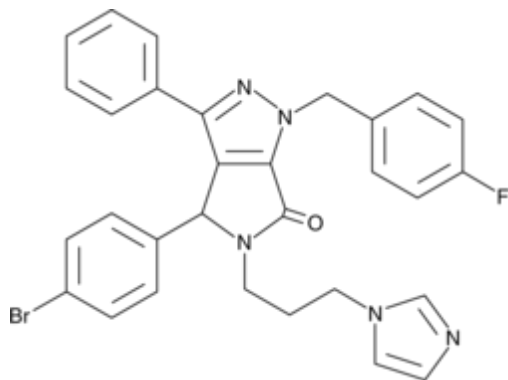
Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, DMSO: PBS (pH 7.2) (1:2): 0.25 mg/ml, Ethanol: 2 mg/ml

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

(±)-Nutlin-3 blocks the interaction of p53 with its negative regulator Mdm2 (IC₅₀ = 90 nM), inducing the expression of p53-regulated genes and blocking the growth of tumor xenografts in vivo.

CAY10682 is a pyrrolo[3,4c]pyrazole derivative that inhibits the p53-Mdm2 interaction as potently as (±)-nutlin-3 (K_i = 83 nM) and also dose-dependently reduces activation of the NF-κB pathway. It specifically prevents phosphorylation of IκBα by the kinases IKKα, IKKβ, and IKKγ (IC₅₀s = 80.5, 78.2, and 57.1 μM, respectively). CAY10682 blocks the growth of cancer cells in vitro (IC₅₀s = 2-6

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

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μM) and inhibits the growth of A549 cell xenografts in mice without significantly reducing body weight.

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