

CAY10682

Chemical Properties

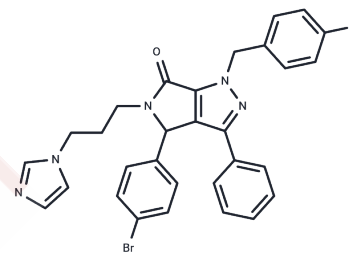
CAS No. : 1542066-74-9

Formula: C₃₀H₂₅BrFN₅O

Molecular Weight: 570.45

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(±)-Nutlin-3 blocks the interaction of p53 with its negative regulator Mdm2 (IC ₅₀ = 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 IKK (IC ₅₀ s = 80.5, 78.2, and 57.1 μM, respectively). CAY10682 blocks the growth of cancer cells in vitro (IC ₅₀ s = 2-6 μM) and inhibits the growth of A549 cell xenografts in mice without significantly reducing body weight.
Targets(IC ₅₀)	Others,NF-κB,MDM-2/p53

Solubility Information

Solubility	DMSO: 20 mg/mL (35.06 mM),Sonication is recommended. Ethanol: 2 mg/mL (3.51 mM),Sonication is recommended. DMF: 20 mg/mL (35.06 mM),Sonication is recommended. DMSO:PBS(pH 7.2) (1:2): 0.25 mg/mL (0.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.753 mL	8.765 mL	17.530 mL
5 mM	0.3506 mL	1.753 mL	3.506 mL
10 mM	0.1753 mL	0.8765 mL	1.753 mL
50 mM	0.0351 mL	0.1753 mL	0.3506 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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