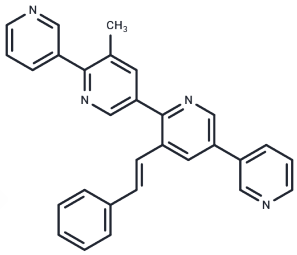
Data Sheet (Cat.No.T16694)

TargetMol

Pyridoclax

Chemical Properties



CAS No. : 1651890-44-6

Formula: C29H22N4

Molecular Weight: 426.51

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	Pyridoclax is an inhibitor of potential Mcl-1.
Targets(IC50)	Bcl-2 Family
In vitro	Pyridoclax directly binds to Mcl-1. Pyridoclax induces apoptosis in combination with Bcl-xL-targeting siRNA or with ABT-737 in ovarian, lung, and mesothelioma cancer cells. Pyridoclax causes apoptosis in ovarian, and also in lung, and mesothelioma cancer cells when it is administrated in combination with Bcl-xL-targeting siRNA or Bcl-xL targeting molecules such as ABT-737 or its orally available derivative ABT-263. Pyridoclax sensitizes ovarian carcinoma cells to Bcl-xL-targeting strategies [1][2].

Solubility Information

Solubility	DMSO: 20 mg/mL (46.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3446 mL	11.7231 mL	23.4461 mL
5 mM	0.4689 mL	2.3446 mL	4.6892 mL
10 mM	0.2345 mL	1.1723 mL	2.3446 mL
50 mM	0.0469 mL	0.2345 mL	0.4689 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.

Reference

Gloaguen C, et al. First evidence that oligopyridines, α-helix foldamers, inhibit Mcl-1 and sensitize ovarian carcinoma cells to Bcl-xL-targeting strategies. J Med Chem. 2015 Feb 26;58(4):1644-68.
Groo AC, et al. Comparison of 2 strategies to enhance Pyridoclax solubility: Nanoemulsion delivery system versus salt synthesis. Eur J Pharm Sci. 2017 Jan 15;97:218-226.

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