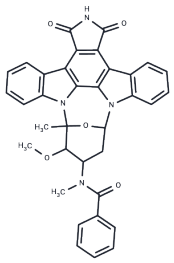
Data Sheet (Cat.No.T16941)

TargetMol

Stauprimide

Chemical Properties



CAS No. : 154589-96-5

Formula: C35H28N4O5

Molecular Weight: 584.62

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	Stauprimide is a non-broad spectrum inhibitor that binds to the MYC transcription factor NME2 and blocks its nuclear localization in ESCs, which causes down-regulation of MYC transcription.
Targets(IC50)	Others,Autophagy,c-Myc
In vitro	Stauprimide (10 μM; 6 hours) inhibits MYC transcription in most cell lines tested (EC50: 30 nM-8 μM), reducing MYC levels by 15% to over 90%. At 5 μM for 3 hours, it suppresses MYC transcription by decreasing NME2 nuclear translocation, and at 2-8 μM for 24-72 hours, it down-regulates MYC, inhibiting cell proliferation in vitro (IC50: 780 nM in RXF 393 cells). Stauprimide (4-10 μM; 6 hours) exhibits various EC50s and degrees of MYC mRNA down-regulation across different cell lines [1].
In vivo	Stauprimide (p.o.; 50 mg/kg; once daily; 30 days, 55 days) blocks tumor growth, decreases MYC protein levels in xenograft mouse with RXF 393 or CAKI-1 cells. It also inhibits MYC transcription in the RXF 393 tumor [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7105 mL	8.5526 mL	17.1051 mL
5 mM	0.3421 mL	1.7105 mL	3.421 mL
10 mM	0.1711 mL	0.8553 mL	1.7105 mL
50 mM	0.0342 mL	0.1711 mL	0.3421 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

Bouvard C, et al. Small molecule selectively suppresses MYC transcription in cancer cells. Proc Natl Acad Sci USA. 2017 Mar 28;114(13):3497-3502.