Data Sheet (Cat.No.T16941)



Stauprimide

Chemical Properties

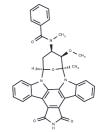
CAS No.: 154589-96-5

Formula: C35H28N4O5

Molecular Weight: 584.62

Appearance: no data available

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



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		
In vitro	Stauprimide (10 μ M; 6 hours) inhibits MYC transcription in the majority of cell lines tested (EC50: range of 30 nM-8 μ M). It also decreases MYC levels between 15% to over 90%. Stauprimide (5 μ M; 3 hours) suppresses MYC Transcription by decreasing NME2 Nuclear Translocation. Stauprimide (2-8 μ M; 24-72 hours) down-regulates MYC leads to the inhibition of cell proliferation in vitro (IC50: 780 nM in RXF 393 cells). Stauprimide (4-10 μ M; 6 hours) acts with different EC50s and with different degrees of maximal MYC mRNA down-regulation in 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.

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.

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