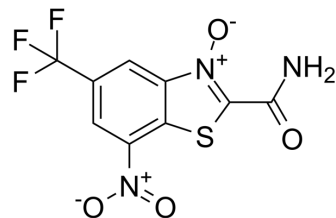


Cyclapolin 9

Cat. No.:	HY-15159		
CAS No.:	40533-25-3		
Molecular Formula:	C ₉ H ₄ F ₃ N ₃ O ₄ S		
Molecular Weight:	307.21		
Target:	Polo-like Kinase (PLK)		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (16.28 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.2551 mL	16.2755 mL	32.5510 mL
	5 mM	0.6510 mL	3.2551 mL	6.5102 mL
	10 mM	0.3255 mL	1.6276 mL	3.2551 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Cyclapolin 9 is a potent, selective and ATP-competitive polo-like kinase 1 (PLK1) inhibitor with an IC ₅₀ of 500 nM. Cyclapolin 9 is inactive against other kinases ^{[1][2]} .
IC₅₀ & Target	PLK1 500 nM (IC ₅₀)
In Vitro	Cyclapolin 9 (3 μM) reduces electric field stimulation (EFS)-induced contractions of prostate strips. The α1-adrenergic smooth muscle contraction in the human prostate can be inhibited by Cyclapolin 9 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Martin Hennenberg, et al. Inhibition of Prostate Smooth Muscle Contraction by Inhibitors of Polo-Like Kinases. Front Physiol. 2018 Jun 15;9:734.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA