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Zuschläge

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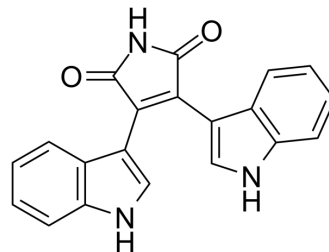
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Bisindolylmaleimide IV

Cat. No.:	HY-108254
CAS No.:	119139-23-0
Molecular Formula:	C ₂₀ H ₁₃ N ₃ O ₂
Molecular Weight:	327.34
Target:	PKC; CMV
Pathway:	Epigenetics; TGF-beta/Smad; Anti-infection
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (381.87 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.0549 mL	15.2746 mL	30.5493 mL
		5 mM		0.6110 mL	3.0549 mL	6.1099 mL
		10 mM		0.3055 mL	1.5275 mL	3.0549 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.35 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Bisindolylmaleimide IV (Arcyriarubin A) is a potent protein kinase C (PKC) inhibitor, with IC ₅₀ s ranging from 0.1 to 0.55 μM. Bisindolylmaleimide IV also inhibits PKA (IC ₅₀ =3.1-11.8 μM) ^[1] . Bisindolylmaleimide IV is a potent, selective inhibitor of human cytomegalovirus (HCMV) replication in cell culture with an IC ₅₀ of 0.2 μM ^[2] .	
IC ₅₀ & Target	PKC 0.1-0.55 μM (IC ₅₀)	HCMV 0.2 μM (IC ₅₀)
In Vitro	Bisindolylmaleimide IV (Arcyriarubin A) inhibits PKC with an IC ₅₀ of 0.1 μM in 1 % DMSO, while the IC ₅₀ of 0.55 μM in 10 % DMSO ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Slater MJ, et al. Indolocarbazoles: potent, selective inhibitors of human cytomegalovirus replication. Bioorg Med Chem. 1999 Jun;7(6):1067-74.

[2]. Davis PD, et al. Inhibitors of protein kinase C. 1. 2,3-Bisarylmalimides. J Med Chem. 1992 Jan;35(1):177-84.

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

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