Bisindolylmaleimide IV

Cat. No.: HY-108254

CAS No.: 119139-23-0

Molecular Formula: $C_{20}H_{13}N_3O_2$

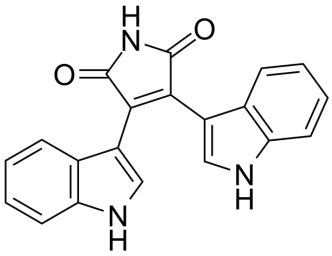
Molecular Weight: 327.34

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	Mass / Solvent / Concentration	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}=3.1-11.8μM)[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	HCMV
0.1-0.55 μM (IC_{50})	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-Bisarylmaleimides. J Med Chem. 1992 Jan;35(1):177-84.

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