3-Phenyltoxoflavin

Cat. No.: HY-125759

CAS No.: 32502-63-9

Molecular Formula: $C_{13}H_{11}N_5O_2$

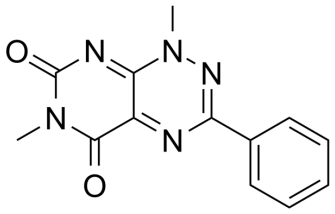
Molecular Weight: 269.26

Target: HSP

Pathway: Cell Cycle/DNA Damage; Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 7.14 mg/mL (26.52 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7139 mL	18.5694 mL	37.1388 mL
	5 mM	0.7428 mL	3.7139 mL	7.4278 mL
	10 mM	0.3714 mL	1.8569 mL	3.7139 mL

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

BIOLOGICAL ACTIVITY

Description

3-Phenyltoxoflavin, a derivative of Toxoflavin, is an Hsp90 inhibitor, with a K_d of 585 nM for the interaction of Hsp90-TPR2A. 3-Phenyltoxoflavin has anti-cancer activity[1][2].

IC_{50} & Target

HSP90
585 nM (Kd)

In Vitro

3-Phenyltoxoflavin (1 nM-100 μM; 4 d) inhibits BT474 cells proliferation in a concentration-dependent manner, with an IC_{50} of 690 nM[1].

3-Phenyltoxoflavin (0.56 nM-100 μM; 2 h) competes with biotinylated Hsp90 peptide for its binding to TPR2A in a dose-dependent manner[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yi F, et, al. A novel class of small molecule inhibitors of Hsp90. ACS Chem Biol. 2008 Oct 17;3(10):645-54.

[2]. Koh S, et, al. A novel light-dependent selection marker system in plants. Plant Biotechnol J. 2011 Apr;9(3):348-58.

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