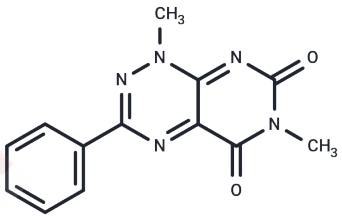
Data Sheet (Cat.No.T36123)

TargetMol

3-Phenyltoxoflavin

Chemical Properties



CAS No. : 32502-63-9

Formula: C13H11N5O2

Molecular Weight: 269.26

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	3-Phenyltoxoflavin (Phenyltoxoflavin) is an inhibitor of HSP90 (Kd = 585 nM) with anti-cancer activity.
Targets(IC50)	HSP
In vitro	3-Phenyltoxoflavin (0.56 nM-100 μM) dose-dependently competes with biotinylated Hsp90 peptide for binding to TPR2A. In BT474 cells, 3-Phenyltoxoflavin (1 nM-100 μM) dose-dependently inhibits cell proliferation with an IC50 of 690 nM[2].

Solubility Information

Solubility	DMSO: 6 mg/mL (22.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0743 mL	0.3714 mL	0.7428 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Koh S, et, al. A novel light-dependent selection marker system in plants. Plant Biotechnol J. 2011 Apr;9(3):348-58.
Yi F, et, al. A novel class of small molecule inhibitors of Hsp90. ACS Chem Biol. 2008 Oct 17;3(10):645-54.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481