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Produktinformation



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

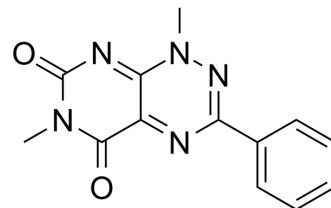
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

3-Phenyltoxoflavin

Cat. No.:	HY-125759
CAS No.:	32502-63-9
Molecular Formula:	C ₁₃ H ₁₁ N ₅ O 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)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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 IC₅₀ 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.

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