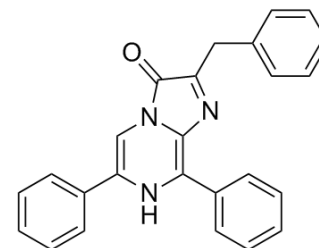


Diphenylterazine

Cat. No.:	HY-111382
CAS No.:	344940-63-2
Molecular Formula:	C ₂₅ H ₁₉ N ₃ O
Molecular Weight:	377.44
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light, stored under nitrogen



Solvent & Solubility

In Vitro

DMSO : ≥ 19 mg/mL (50.34 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * " \geq " means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.6494 mL	13.2471 mL	26.4943 mL
	5 mM		0.5299 mL	2.6494 mL	5.2989 mL
	10 mM		0.2649 mL	1.3247 mL	2.6494 mL

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

BIOLOGICAL ACTIVITY

Description

Diphenylterazine is a bioluminescence agent.

In Vitro

Diphenylterazine is a bioluminescence agent. Diphenylterazine alone yields very little background, leading to excellent signal-to-background ratios. Furthermore, Diphenylterazine elicits minimal cell toxicity at millimolar concentrations. Diphenylterazine injections into untransfected BALB/c mice do not yield any background emission. The bioluminescence resulting from intraperitoneally injected Diphenylterazine displays extended kinetics^[1].

PROTOCOL

Cell Assay ^[1]

BALB/c mice are used and transfected with cells expressing teLuc, Antares, Antares2 and FLuc by injecting cells into the tail vein of BALB/c mice. After the diminishing of the FLuc bioluminescence, **0.3 μ mol Diphenylterazine** or furimazine is **intraperitoneally injected**. Mice are imaged with a 1-min exposure per frame over a course of 20 min.

The images are processed using the Fiji image analysis software and the frames with highest signals in individual experiments are used for comparison^[1].

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

REFERENCES

[1]. Yeh HW, et al. Red-shifted luciferase-luciferin pairs for enhanced bioluminescence imaging. Nat Methods. 2017 Oct;14(10):971-974.

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