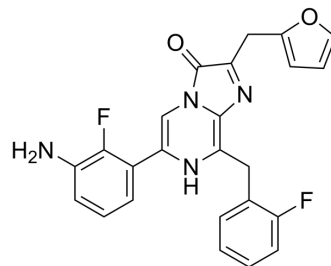


Fluorofurimazine

Cat. No.:	HY-D1282
CAS No.:	2412089-96-2
Molecular Formula:	C ₂₄ H ₁₈ F ₂ N ₄ O ₂
Molecular Weight:	432.42
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 25 mg/mL (57.81 mM; warming and heat to 60°C)
 DMSO : 1.79 mg/mL (4.14 mM; ultrasonic and warming and heat to 60°C)
 H₂O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.3126 mL	11.5628 mL	23.1257 mL
	5 mM	0.4625 mL	2.3126 mL	4.6251 mL
	10 mM	0.2313 mL	1.1563 mL	2.3126 mL

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

In Vivo

1. Add each solvent one by one: 50% PEG300 >> 50% saline
 Solubility: 1.67 mg/mL (3.86 mM); Suspended solution; Need ultrasonic and warming and heat to 44°C

BIOLOGICAL ACTIVITY

Description

Fluorofurimazine is fluorogenic substrate for Antares. Fluorofurimazine can realize sensitive bioluminescence imaging to prolong the generation of high-sensitivity light. Fluorofurimazine has good aqueous solubility allows delivery of higher doses to mice. Fluorofurimazine can be used in the bioluminescence imaging^[1].

In Vivo

Fluorofurimazine (562 µg; i.p.; for 30 days; nude mice) increases in peak signal when administered at 562 µg in vivo^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Nude mice ^[1]
Dosage:	562 µg

Administration:	Intraperitoneal injection;for 30 days
Result:	Exhibited threefold bioluminescence than AkaLuc with AkaLumine.

REFERENCES

[1]. Su Y, et, al. Novel NanoLuc substrates enable bright two-population bioluminescence imaging in animals. Nat Methods. 2020 Aug;17(8):852-860.

Caution: Product has not been fully validated for medical applications. For research use only.

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