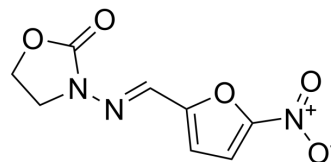


Furazolidone

Cat. No.:	HY-B1336		
CAS No.:	67-45-8		
Molecular Formula:	C ₈ H ₇ N ₃ O ₅		
Molecular Weight:	225.16		
Target:	Bacterial; Apoptosis; Antibiotic; Parasite		
Pathway:	Anti-infection; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5.56 mg/mL (24.69 mM; ultrasonic and warming and heat to 60°C)
 H₂O : 0.67 mg/mL (2.98 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		4.4413 mL	22.2064 mL	44.4129 mL
	5 mM		0.8883 mL	4.4413 mL	8.8826 mL
	10 mM		0.4441 mL	2.2206 mL	4.4413 mL

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

BIOLOGICAL ACTIVITY

Description

Furazolidone is a nitrofurantoin derivative with antiprotozoal and antibacterial activity, inhibits AML1-ETO transformed cells with IC₅₀ value of 12.7 μM. Target: Antibacterial Furazolidone is a novel therapeutic strategy in AML patients. Furazolidone can inhibit the bone-marrow transformation mediated by a series of leukemia fusion proteins. Furazolidone significantly inhibits proliferation of AML cell lines. Furazolidone induces apoptosis of the AML leukemic cells treatment with Furazolidone induces differentiation of AML cell lines.

CUSTOMER VALIDATION

- Zebrafish. 2023 May 25.
- Research Square Preprint. 2021 Aug.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jiang X, et al. A novel application of furazolidone: anti-leukemic activity in acute myeloid leukemia. PLoS One. 2013 Aug 9;8(8):e72335.

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

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