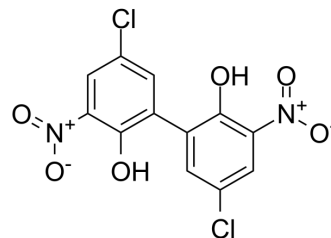


## Niclofolan

Cat. No.:	HY-113715
CAS No.:	10331-57-4
Molecular Formula:	C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>6</sub>
Molecular Weight:	345.09
Target:	Parasite
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (289.78 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.8978 mL	14.4890 mL	28.9779 mL	
5 mM	0.5796 mL	2.8978 mL	5.7956 mL	
10 mM	0.2898 mL	1.4489 mL	2.8978 mL	

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

### BIOLOGICAL ACTIVITY

#### Description

Niclofolan (BAY 9015) is an orally active anthelmintic agent. Niclofolan can be used in the research of parasite infection<sup>[1][2][3]</sup>.

#### In Vitro

Niclofolan (0.12 mg/mL, 60 min) is effective against *Gyrodactylus* sp. under in vitro conditions<sup>[3]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
Cell Viability Assay<sup>[3]</sup>

Cell Line:	<i>Gyrodactylus</i> sp. (parasite)
Concentration:	0.12 mg/mL
Incubation Time:	60 min
Result:	Reduced the number of live <i>Gyrodactylus</i> sp. By 100%.

#### In Vivo

Niclofolan (2 mg/kg, intramuscular injection) is effective against *fasciola hepatica* infected sheep<sup>[2]</sup>.  
Niclofolan (1 or 2 mg/kg, oral gavage) shows therapeutic effects against *P. iloktsuenesis* infected rats<sup>[4]</sup>.

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Animal Model:	fasciola hepatica infected sheep <sup>[2]</sup>
Dosage:	2 mg/kg
Administration:	Intramuscular injection
Result:	Showed effectiveness against the infection and produced no untoward effects except for transient signs of pain at the site of injection.
Animal Model:	Rats infected with P.iloktsuenensis <sup>[4]</sup>
Dosage:	1 mg/kg, daily for 3 days; 2 mg/kg every other day for 2 times.
Administration:	Oral gavage
Result:	Reduced the worms in rats.

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## REFERENCES

- [1]. T Eckhardt, Treatment of human fascioliasis with niclofolan. Gastroenterology. 1981 Oct; 81(4):795-8.
- [2]. B H Ali, T Hassan, et al. The effect of niclofolan on desert sheep experimentally infected with immature Fasciola gigantica. J Vet Pharmacol Ther. 1985 Dec;8(4):398-403.
- [3]. Santamarina M. T., et al. Anthelmintic treatment against Gyrodactylus sp. infecting rainbow trout Oncorhynchus mykiss. Diseases of Aquatic Organisms, 1991 10(1): 39-43.
- [4]. Rim H J, et al. Experimental chemotherapeutic effects of niclofolan (Bayer 9015, Bilevon) on the animals infected with Paragonimus westermani or P. iloktsuenensis. The Korean Journal of Parasitology, 1976, 14(2): 140-146.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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