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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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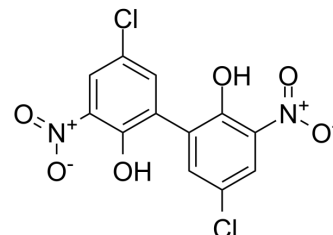
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Niclofolan

Cat. No.: HY-113715
CAS No.: 10331-57-4
Molecular Formula: C₁₂H₆Cl₂N₂O₆
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)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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^{[1][2][3]}.

In Vitro

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

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^[2].
 Niclofolan (1 or 2 mg/kg, oral gavage) shows therapeutic effects against *P. iloktsuenesis* infected rats^[4].

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

Animal Model:	fasciola hepatica infected sheep ^[2]
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.iloktsuenesis ^[4]
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.

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.

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

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