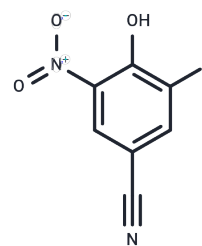


Nitroxynil

Chemical Properties

CAS No. :	1689-89-0
Formula:	C7H3IN2O3
Molecular Weight:	290.01
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Nitroxynil (4-Hydroxy-3-iodo-5-nitrobenzonitrile) is an anthelmintic compound that effectively targets parasites in both adult and immature stages. It is extensively employed in investigations pertaining to Fasciola hepatica infection.
Targets(IC50)	Parasite

Solubility Information

Solubility	DMSO: 50 mg/mL (172.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.9 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4482 mL	17.2408 mL	34.4816 mL
5 mM	0.6896 mL	3.4482 mL	6.8963 mL
10 mM	0.3448 mL	1.7241 mL	3.4482 mL
50 mM	0.069 mL	0.3448 mL	0.6896 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Holsback L, et, al. Anthelmintic efficiency of doramectin, fenbendazole, and nitroxylnil, in combination or individually, in sheep worm control. Rev Bras Parasitol Vet. Jul-Sep 2016;25(3):353-8.

Takeba K, et, al. [Investigation of the residue of the fasciolicide nitroxylnil in milk and dairy products]. Nihon Kosshu Eisei Zasshi. 1992 Feb;39(2):75-82.

Na G, et, al. A rapid colloidal gold-based immunochromatographic strip assay for monitoring nitroxylnil in milk. J Sci Food Agric. 2020 Mar 30;100(5):1860-1866.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481