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产品名称: 海恩酮
 产品别名: 羟甲硫蒽酮; Hycanthonone

生物活性:					
Description	Hycanthonone is an effective antischistosomai drug.				
IC₅₀ & Target	Parasite[1]				
In Vitro	Hycanthonone at 20 mg/mL or more is progressively more detrimental to cell viability. Results reveal that increased concentrations of Hycanthonone, ranging from 0.1 to 10 µg/mL, progressively reduces viral interferon yields as much as 73% compare to that of controls[2].				
In Vivo	Results show that the incorporation of tritiated thymidine into TCA-precipitable material of adult sensitive worms undergo a progressive decrease after treatment with Hycanthonone. Immature worms are totally unaffected by Hycanthonone at all times tested. Male worms treated with Hycanthonone show signs of a possible partial recovery from the initial low levels of incorporation. The incorporation of tritiated leucine by drug-sensitive worms treated with Hycanthonone is inhibited by 40 to 50% in the first four days after treatment. Results show that, 7 days after Hycanthonone treatment, both ribosomal RNA species are reduced by at least 80% with respect to untreated worms, with some indication of a possible accumulation of heavier precursor molecules[1].				
Solvent&Solubility	In Vitro: DMSO : 30 mg/mL (84.16 mM; Need ultrasonic and warming)				
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing	1 mM	2.8052 mL	14.0260 mL	28.0521 mL
	Stock Solutions	5 mM	0.5610 mL	2.8052 mL	5.6104 mL
		10 mM	0.2805 mL	1.4026 mL	2.8052 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
References	[1]. Pica Mattoccia L, et al. Effect of hycanthonone administered in vivo upon the incorporation of radioactive precursors into macromolecules of Schistosoma mansoni. Mol Biochem Parasitol. 1983 Jun;8(2):99-107. [2]. Hahon N, et al. Action of antischistosomal drugs, hycanthonone and its analog 1A-4 N-oxide, on viral interferon induction. J Toxicol Environ Health. 1980 Jul;6(4):705-12.				
实验参考:					
Cell Assay	Appropriate quantities of Hycanthonone (1 to 100 µg) in 10 mL maintenance medium are added to plastic flasks (75 cm ²) containing approximately 3×10 ⁷ LLC-MK2 cells in monolayer, which are then incubated at 35°C for 24 h. Maintenance medium is decanted, and 2 mL influenza virus is added onto cell monolayers and incubated at 35°C for 2 h. The multiplicity of infection is approximately 1.0. Inoculum is removed and 10 mL maintenance medium is added to each flask, which is then incubated at 35°C for 24 h. Supernatant fluid is decanted, centrifuged at 100,000 g for 1 h, dialyzed against HCl-KCl buffer (pH 2.0) at 4°C for 24 h, and then dialyzed against two changes of				



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	phosphate-buffered saline (pH 7.1) at 4°C for 24 h. Fluids are passed through filters to obtain sterile preparations. Samples are stored at -80°C until assayed for interferon activity[2].
Animal Administration	Female outbred Swiss albino mice used as definitive hosts weigh 18 to 20 g at the time of infection. Hycanthon is administered at 0.01 mL/g body weight intramuscularly by splitting the dose into the two hind legs, so that each mouse receives 80 mg/kg body weight of the free base. Treatments are usually performed during the 8th week after infection[1].
References	[1]. Pica Mattoccia L, et al. Effect of hycanthon administered in vivo upon the incorporation of radioactive precursors into macromolecules of <i>Schistosoma mansoni</i> . <i>Mol Biochem Parasitol</i> . 1983 Jun;8(2):99-107. [2]. Hahon N, et al. Action of antischistosomal drugs, hycanthon and its analog 1A-4 N-oxide, on viral interferon induction. <i>J Toxicol Environ Health</i> . 1980 Jul;6(4):705-12.



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