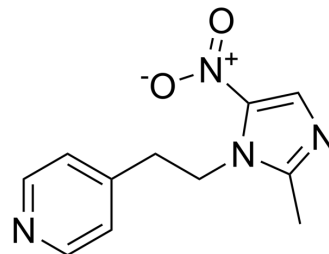


Panidazole

Cat. No.:	HY-101715		
CAS No.:	13752-33-5		
Molecular Formula:	C ₁₁ H ₁₂ N ₄ O ₂		
Molecular Weight:	232.24		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (538.24 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.3059 mL	21.5295 mL	43.0589 mL
	5 mM	0.8612 mL	4.3059 mL	8.6118 mL
	10 mM	0.4306 mL	2.1529 mL	4.3059 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (8.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (8.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (8.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Panidazole is an amoebicide.

IC₅₀ & Target

Amebae

In Vitro

Panidazole in concentrations of 0.02-1 mM increases the mutation frequency of *Klebsiella pneumoniae*, *Escherichia coli* K12 and *Citrobacter freundii* to streptomycin resistance, including streptomycin dependence, in Luria and Delbrück's fluctuation

test^[1].

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

In Vivo

In 100 cases of vaginal trichomoniasis treated with panidazole at the dose of 1.0 g per day for seven days in half of the patients and for 10 days in the other half, we obtained 50% and 60% cure rates^[3].

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

REFERENCES

[1]. Voogd CE, et al. The mutagenic action of nitroimidazoles. II. Tinidazole, ipronidazole, panidazole and ornidazole. *Mutat Res.* 1977 Apr;48(2):155-61.

[2]. Botero D, et al. Treatment of intestinal amoebiasis and vaginal trichomoniasis with panidazole and its comparison with metronidazole. *Trans R Soc Trop Med Hyg.* 1977;71(6):508-11.

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

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