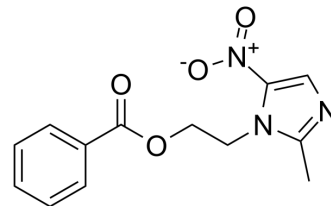


Metronidazole Benzoate

Cat. No.:	HY-122975		
CAS No.:	13182-89-3		
Molecular Formula:	C ₁₃ H ₁₃ N ₃ O ₄		
Molecular Weight:	275.26		
Target:	Bacterial; Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (908.23 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.6329 mL	18.1646 mL	36.3293 mL
	5 mM	0.7266 mL	3.6329 mL	7.2659 mL
	10 mM	0.3633 mL	1.8165 mL	3.6329 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.56 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.56 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.56 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Metronidazole Benzoate, derives from a metronidazole and a benzoic acid, has a role as an antibacterial, antimicrobial, antiparasitic, and antitrichomonal agent ^[1] .
IC₅₀ & Target	Antibacterial, antimicrobial, antiparasitic, antitrichomonal ^[1]
In Vitro	Metronidazole Benzoate is indicated for the treatment of infections caused by a wide range of anaerobic, protozoan and bacteroid bacteria, including trichomoniasis, amebiasis, vaginosis and gingivitis ^[1] .

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

REFERENCES

[1]. Santiago de Oliveira Y, et al. The design of novel metronidazole benzoate structures: exploring stoichiometric diversity. Acta Crystallogr C Struct Chem. 2019 May 1;75(Pt 5):483-495.

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

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