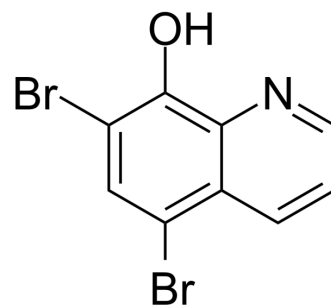


Broxyquinoline

Cat. No.:	HY-B1212
CAS No.:	521-74-4
Molecular Formula:	C ₉ H ₅ Br ₂ NO
Molecular Weight:	303
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 : 31.25 mg/mL (103.14 mM; Need ultrasonic)						
	H ₂ O : < 0.1 mg/mL (insoluble)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.3003 mL	16.5016 mL	33.0033 mL
				5 mM	0.6601 mL	3.3003 mL	6.6007 mL
10 mM				0.3300 mL	1.6502 mL	3.3003 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (6.86 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (5.51 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Broxyquinoline (Dibromohydroxyquinoline) is a potent severe fever with thrombocytopenia syndrome virus (SFTSV) inhibitor with an IC ₅₀ of 5.8 μM. Broxyquinoline is an antiprotozoal agent ^{[1][2]} .
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CUSTOMER VALIDATION

- Viruses. 2019 Apr 25;11(4):385.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Fritzler JM, et al. Novel anti-Cryptosporidium activity of known drugs identified by high-throughput screening against parasite fatty acyl-CoA binding protein (ACBP). J Antimicrob Chemother. 2012 Mar;67(3):609-17.
- [2]. Shuofeng Yuan, et al. Screening of an FDA-Approved Drug Library with a Two-Tier System Identifies an Entry Inhibitor of Severe Fever with Thrombocytopenia Syndrome Virus. Viruses. 2019 Apr 25;11(4):385.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA