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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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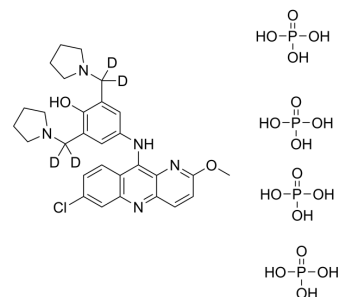
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Pyronaridine-d₄ tetraphosphate

Cat. No.:	HY-14749AS
CAS No.:	1186026-25-4
Molecular Formula:	C ₂₉ H ₄₀ D ₄ ClN ₅ O ₁₈ P ₄
Molecular Weight:	914.06
Target:	Parasite
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 25 mg/mL (27.35 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.0940 mL	5.4701 mL	10.9402 mL
	5 mM	0.2188 mL	1.0940 mL	2.1880 mL
	10 mM	0.1094 mL	0.5470 mL	1.0940 mL

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

BIOLOGICAL ACTIVITY

Description

Pyronaridine-d₄ (tetraphosphate) is the deuterium labeled Pyronaridine tetraphosphate[1]. Pyronaridine tetraphosphate is an orally active Mannich base anti-malarial agent. Pyronaridine tetraphosphate is active against *P. falciparum* and *Echinococcus granulosus* infection[2][3].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Vivas L, et al. Anti-malarial efficacy of pyronaridine and artesunate in combination in vitro and in vivo. *Acta Trop*. 2008 Mar;105(3):222-8.

[3]. Jun Li, et al. Old drug repurposing for neglected disease: Pyronaridine as a promising candidate for the treatment of Echinococcus granulosus infections. EBioMedicine. 2020 Apr;54:102711.

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

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