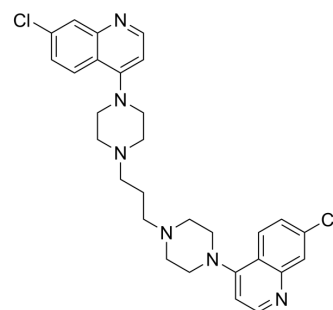


## Piperaquine

Cat. No.:	HY-B1896
CAS No.:	4085-31-8
Molecular Formula:	C <sub>29</sub> H <sub>32</sub> Cl <sub>2</sub> N <sub>6</sub>
Molecular Weight:	535.51
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Piperaquine is a bisquinoline antimalarial agent. Piperaquine can be used in antimalarial research in combination with Artemisinin <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Plasmodium
In Vivo	<p>Piperaquine (10-90 mg/kg; a single i.p.) decreases parasitemia at all of the doses tested in mice<sup>[1]</sup>.</p> <p>Piperaquine (90 mg/kg; a single i.p.) exhibits the t<sub>1/2</sub>, apparent clearance, and apparent volume of distribution 17.8 days, 33.5 mg•h/L, 1.55 L/h/kg, and 956 L/kg, respectively, in healthy mice and 16.1 days, 27.3 mg•h/L, 1.9 L/h/kg, and 1,059 L/kg in malaria-infected mice<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### CUSTOMER VALIDATION

- Cell Rep. 2021 Apr 6;35(1):108959.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Moore BR, et, al. Pharmacokinetics and pharmacodynamics of piperaquine in a murine malaria model. Antimicrob Agents Chemother. 2008 Jan; 52(1): 306-11.
- [2]. Davis TME, et, al. Piperaquine: a resurgent antimalarial drug. Drugs. 2005; 65(1): 75-87.

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

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