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Zuschläge

- Mindermengenzuschlag
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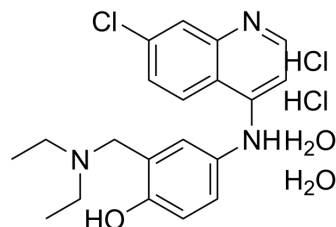
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Amodiaquine dihydrochloride dihydrate (Standard)

Cat. No.:	HY-B1322R
CAS No.:	6398-98-7
Molecular Formula:	C ₂₀ H ₂₂ ClN ₃ O.2H ₂ O.2HCl
Molecular Weight:	464.81
Target:	Parasite; Histone Methyltransferase; Nuclear Hormone Receptor 4A/NR4A
Pathway:	Anti-infection; Epigenetics; Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Amodiaquine (dihydrochloride dihydrate) (Standard) is the analytical standard of Amodiaquine (dihydrochloride dihydrate). This product is intended for research and analytical applications. Amodiaquine dihydrochloride dihydrate (Amodiaquin dihydrochloride dihydrate), a 4-aminoquinoline class of antimalarial agent, is a potent and orally active histamine N-methyltransferase inhibitor. Amodiaquine dihydrochloride dihydrate is also a Nurr1 agonist and specifically binds to Nurr1-LBD (ligand binding domain) with an EC ₅₀ of ~20 μM. Anti-inflammatory effect ^{[1][2][3][4]} .
IC₅₀ & Target	EC ₅₀ : ~20 μM (Nurr1-LBD (ligand binding domain)) ^[1] Histamine N-methyltransferase ^[3]

REFERENCES

- [1]. Chun-Hyung Kim, et al. Nuclear receptor Nurr1 agonists enhance its dual functions and improve behavioral deficits in an animal model of Parkinson's disease. *Proc Natl Acad Sci U S A*. 2015 Jul 14;112(28):8756-61.
- [2]. Keita Kinoshita, et al. A Nurr1 agonist amodiaquine attenuates inflammatory events and neurological deficits in a mouse model of intracerebral hemorrhage. *J Neuroimmunol*. 2019 May 15;330:48-54.
- [3]. Akira Yokoyama, et al. Effect of amodiaquine, a histamine N-methyltransferase inhibitor, on, *Propionibacterium acnes* and lipopolysaccharide-induced hepatitis in mice. *Eur J Pharmacol*. 2007 Mar 8;558(1-3):179-84.
- [4]. M T HOEKENGA. The treatment of acute malaria with single oral doses of amodiaquin, chloroquine, hydroxychloroquine and pyrimethamine. *Am J Trop Med Hyg*. 1954 Sep;3(5):833-8.

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

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