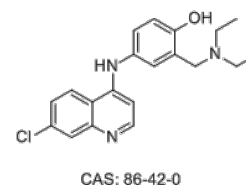


Product Name : Amodiaquine
Cat. No. : PC-20771
CAS No. : 86-42-0
Molecular Formula : C₂₀H₂₂ClN₃O
Molecular Weight : 355.87
Target : NURR1 (NR4A2)
Solubility : 10 mM in DMSO



Biological Activity

Amodiaquine (Amodiaquin, AQ) is an antimalarial agent and nuclear receptor Nurr1 (NR4A2) agonist, specifically binds to Nurr1-LBD (ligand binding domain) with EC₅₀ of 20 uM.

Amodiaquine suppresses LPS-induced expression of proinflammatory cytokines (IL-1 β , interleukin-6, TNF- α and iNOS) in a dose-dependent manner.

Amodiaquine significantly inhibits neurotoxin (6-OHDA)-induced cell death in primary dopamine cells as examined by the number of TH+ neurons and dopamine uptake.

Amodiaquine exhibits neuroprotective effect in rat PC12 cells.

Amodiaquine also is a potent inhibitor of histamine N-methyltransferase protects mice from Propionibacterium acnes (P. acnes)-primed and lipopolysaccharide (LPS)-induced hepatitis.

References

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Keita Kinoshita, et al. J Neuroimmunol. 2019 May 15;330:48-54.

Akira Yokoyama, et al. Eur J Pharmacol. 2007 Mar 8;558(1-3):179-84.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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