

Chloroquine diphosphate

Catalogue Number : 5066350

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: chingamin, Aralen

Chemical Name: 4-N-(7-chloroquinolin-4-yl)-1-N,1-N-diethylpentane-1,4-diamine;phosphoric acid

Molecular Formula: C₁₈H₂₆ClN₃•2H₃PO₄

Molecular Weight:515.9

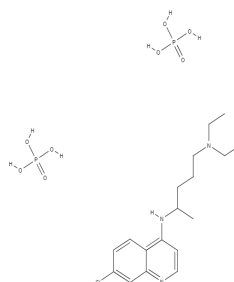
CAS Number: 50-63-5

Purity: 95%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Chloroquine is a 4-aminoquinoline that is commonly used as an antimalarial agent. It exhibits anti-cancer properties in numerous cancer cell lines and antimetastatic activity. Chloroquine is reported to inhibit autophagy and cell proliferation. It is currently being researched as a potential treatment for COVID-19.

Preparation & Storage

Soluble in aqueous solutions. It is soluble in PBS up to 10mg/ml.

References

- 1.Krogstad, D. J., Gluzman, I. Y., Kyle, D. E., Oduola, A. M., Martin, S. K., Milhous, W. K., Schlesinger, P. H. (1987). Efflux of chloroquine from Plasmodium falciparum: mechanism of chloroquine resistance.Science,238(4831), 1283-1285.
2. Kimura, T., Takabatake, Y., Takahashi, A., Isaka, Y. (2013). Chloroquine in cancer therapy: a double-edged sword of autophagy.Cancer research,73(1), 3-7.
3. Gao, J., Tian, Z., Yang, X. (2020). Breakthrough: Chloroquine phosphate has shown apparent efficacy in treatment of COVID-19 associated pneumonia in clinical studies.BioScience Trends.