

DATA SHEET

Product Name: Chloroquine Phosphate

Catalog #: CV-1024

Alt: CAS # 50-63-5; N4-(7-Chloro-4-quinolinyl)-N1,N1-dimethyl-1,4-pentanediamine, diphosphate

Molecular Mass: 515.9

Analysis: >98% (TLC); NMR (conforms)

Supplied As: White powder

Resuspension: May be dissolved in water (25 mg/ml)

Storage: Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at -20°C for up to 3 months.

Description: Antimalarial drug. Inhibits autophagy in a variety of cell lines¹. Induces cell death in breast cancer cell lines and displays antitumor and antimetastatic activity in mouse models of breast cancer². Eliminates cancer stem cells via deregulation of Jak2 and DNMT1³. Displays synergy when combined with the Raf inhibitor, vemurafenib, in brain tumors⁴. Cell permeable and active *in vivo*.

References:

1. Frieboes, H.B., et al., (2014) JOP, 15 : 189
2. Jiang, P.D., et al., (2010) Biomed. Pharmacother., 64 : 609
3. Choi, D.S., et al., (2014) Stem Cells, 32 : 2309
4. Mulcahy, J.M., et al., (2014) Cancer Discov., 4 : 773

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