



LKT Laboratories, Inc.

## Quinacrine Dihydrochloride Dihydrate

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### Product Information

**Product ID** Q8133

**CAS No.** 6151-30-0

**Chemical Name** N4-(6-Chloro-2-methoxy-9-acridinyl)-N1,N1-diethyl-1,-4-pentanediamine dihydrochloride dihydrate

**Synonym** Atebrine hydrochloride, RP-866, SN-390, Mepacrine

**Formula**  $C_{23}H_{30}ClN_3O \cdot 2HCl \cdot 2H_2O$

**Formula Wt.** 508.92

**Melting Point** 248-250° C(dec)

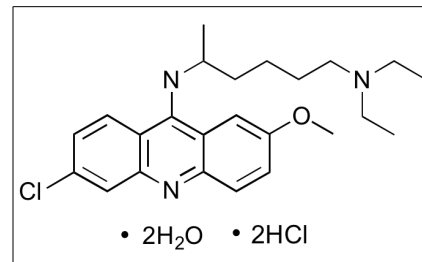
**Purity** ≥97%

**Solubility** Soluble in hot water. Slightly soluble in ethanol, methanol or water. Insoluble in ether, benzene or acetone.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Quinacrine exhibits anti-parasitic, anti-protozoan, anticancer, and anti-inflammatory activities. Quinacrine alters cell membrane permeability and is clinically used to treat infections of *Giardia*. In colon cancer cells, quinacrine induces apoptosis, activates p53 and p21, and inhibits topoisomerase. In other cellular models, quinacrine decreases TNF- $\alpha$ , IL-1 $\beta$ , and CCL21 production, suppresses migration of dendritic cells, and inhibits activation of CD8<sup>+</sup> T cells.



**Bulk quantities available upon request**

Product ID	Size
Q8133	1 g
Q8133	5 g
Q8133	10 g
Q8133	25 g

**References** Mohapatra P, Preet R, Das D, et al. Quinacrine-mediated autophagy and apoptosis in colon cancer cells is through a p53- and p21-dependent mechanism. *Oncol Res.* 2012;20(2-3):81-91. PMID: 23193914.

Gorbachev AV, Gasparian AV, Gurova KV, et al. Quinacrine inhibits the epidermal dendritic cell migration initiating T cell-mediated skin inflammation. *Eur J Immunol.* 2007 Aug;37(8):2257-67. PMID: 17634953.

Fasanmade AA, Owuor ED, Ee RP, et al. Quinacrine induces cytochrome c-dependent apoptotic signaling in human cervical carcinoma cells. *Arch Pharm Res.* 2001 Apr;24(2):126-35. PMID: 11339632.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.