Quinacrine dihydrochloride

Product Number Q 3251
Store at Room Temperature

**Product Description**
Molecular Formula: C\textsubscript{23}H\textsubscript{30}ClN\textsubscript{3}O \cdot 2HCl
Molecular Weight: 472.9
CAS Number: 69-05-6
Melting Point: 248-250 °C,\textsuperscript{1}
P\textsubscript{K}a: 10.3 and 7.7\textsuperscript{2}
Fluorescent Properties:
Excitation maximum = 436 nm\textsuperscript{2}
Emission maximum = 525 nm\textsuperscript{2}
Synonyms: Atebrin dihydrochloride, Mepacrine dihydrochloride, 6-Chloro-9(4-diethylamino-1-methylbutylamino)-2-methoxyacridine dihydrochloride

Quinacrine is an inhibitor of phospholipase A\textsubscript{2} from porcine pancreas (IC\textsubscript{50} = 17 µM).\textsuperscript{3} Quinacrine intercalates with DNA, inhibits some flavoprotein enzymes, and uncouples oxidative and photophosphorylation.\textsuperscript{2} Quinacrine can also be used to differentiate between Y and X chromosomes as Y chromosomes apparently stain much better than X chromosomes using quinacrine and can be distinguished by fluorescent microscopy.\textsuperscript{4}

**Precautions and Disclaimer**
For Laboratory Use Only. Not for drug, household or other uses.

**Preparation Instructions**
This product is soluble in water (50 mg/ml with heat), yielding a clear solution.

**References**
1. The Merck Index, 10th ed., Entry# 7946.

TMG/RXR 1/03

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