

Catalog	Unit
TBI4251-20MG	20mg
TBI4251-100MG	100mg

### Product Details

**Formal Name:** 6-Chloro-9-(4-diethylamino-1-methylbutyl)amino-2-methoxyacridine dihydrochloride

**Molecular Formula:** C<sub>23</sub>H<sub>30</sub>ClN<sub>3</sub>O · 2HCl

**Formula Weight:** 472.88

**CAS Number:** 69-05-6

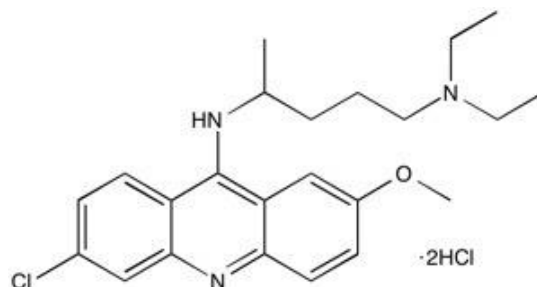
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in water (up to at least 25 mg/ml) or in DMSO ( up to at least 10 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Antiprotozoan; Anticancer

### Functions

Quinacrine is an antiprotozoan drug used for malaria and giardiasis and has recently been investigated in treating lupus, as an anticancer agent, inflammation, and as a female sterilization agent. It has been found to have synergistic effects with vorinostat in the treatment of T-cell acute lymphoblastic leukemia via mitophagy blockage and an increase in ROS. Quinacrine displayed antitumor effects in an intestinal cancer mouse model and HCT116 p53<sup>-/-</sup> xenografts via reduction in Chk1/2 expression and cell death induction in the G2-M phase. It promotes autophagic cell death in ovarian cancer cells via downregulation of p62/SQSTM1. Quinacrine is also an inhibitor of phospholipase A2.

### Application Procedures

First dissolved in water (up to at least 25 mg/ml) or in DMSO ( up to at least 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

**For research use only.**