Toxins and alkaloids - Ion Channel and Receptor Ligands

TECHNICAL DATA

**PENETRAN Cl (m-CPMQ=O), Prod. No. L90 38,**
an inhibitor of high-affinity choline uptake (HACHU) in synaptosomes; acetylcholine synthesis inhibitor; good penetration of biological membranes.

Quinclidine derivative, C\textsubscript{14}H\textsubscript{14}NOCl .HCl, synthetic.

![Chemical Structure](image-url)

**Chemical Name:** Z-2-((3'chlorophenyl)methylene]-3-quinuclidon HCl;
Z-2-[3'-chlorophenyl)methylene]-3-oxoquinuclidine HCl

**Physical Form:** slightly yellowish crystal powder.

**Molecular Weight:** 284.18.

**Melting Point:** 185-187 °C.

**Solubility:** water, ethanol and DMSO.

**Purity:** min. 99.5%.

TLC [Silufol UV-254, MeOH:NH\textsubscript{3}(25%) Rf =0.68, development in UV light followed with Dragendorff® reagent]; NMR (D2O).

**Biological activity:**

Cell permeable inhibitor of high-affinity choline uptake (HACHU). For comparative information see the attached table.

good penetration of biological membranes.

**Toxicity (LD\textsubscript{50}):**
mice (orally) >700mg/kg

**Optical activity:** no optical activity.
Storage and reconstitution recommendations:

Store in a dark place in a dessicator; solutions are stable for 1-2 days at room temperature. Solution for use: $10^{-3}$ M (2 mg in 8.06 ml).

Bibliographic references:


3. Doukas P.H. et al., ibid, 355-360.

