Dequalinium Chloride

Cat. No.: HY-B0567
CAS No.: 522-51-0
Molecular Formula: C₃₀H₄₀Cl₂N₄
Molecular Weight: 527.57
Target: Potassium Channel
Pathway: Membrane Transporter/Ion Channel
Storage: 4°C, sealed storage, away from moisture
* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Solubility</th>
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</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>&lt; 1 mg/mL (insoluble or slightly soluble)</td>
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<tr>
<td>Ethanol</td>
<td>&lt; 1 mg/mL (insoluble)</td>
</tr>
<tr>
<td>H₂O</td>
<td>&lt; 0.1 mg/mL (insoluble)</td>
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BIOLOGICAL ACTIVITY

Description: Dequalinium Chloride is a selective blocker of apamin-sensitive K+ channels. Target: Potassium Channel
Dequalinium Chloride is a selective blocker of apamin-sensitive K+ channels. Treatment with Dequalinium chloride did not influence conditions caused by haemolytic streptococci — verified by bacteriological examinations of pharyngeal smears — inspite of its efficiency in vitro [1]. Dequalinium chloride (DECA), a cationic, lipophilic mitochondrial poison, selectively targets the mitochondrial membrane of certain epithelial carcinoma cells, in which it inhibits cellular energy production. Higher DECA doses under either regimen induced severe toxic effects and mortality [2].

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.
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