Dequalinium (chloride)
Item No. 17557

CAS Registry No.: 522-51-0
Formal Name: 1,1’-(1,10-decanediyl)bis[4-amino-2-methyl-quinolinium, dichloride
Synonym: NSC 166454
MF: C_{30}H_{40}N_{4} • 2Cl
FW: 527.6
Purity: ≥98%
UV/Vis.: λ_{max}: 210, 221, 242, 328, 341 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Dequalinium is a quaternary ammonium cation with diverse biological activities.\textsuperscript{1-3} It has antifungal activity against \textit{C. albicans}, \textit{C. glabrata}, and \textit{C. krusei} (MICs = 0.5-2, 64-256, and 128 μg/ml, respectively), antitrichomonal activity against \textit{T. vaginalis} (MICs = 28.8-230.4 μg/ml), and antibacterial activity against a panel of aerobic and facultative anaerobic bacteria (MICs = 0.25-256 μg/ml).\textsuperscript{1} Dequalinium inhibits apamin binding to, and net potassium loss mediated by, SK\textsubscript{Ca} channels in guinea pig hepatocytes stimulated by angiotensin II (Item No. 17150).\textsuperscript{2} \textit{In vivo}, dequalinium (1-10 mg/kg) inhibits primary and recurrent tumor growth in a W163 rat colon carcinoma isograft model.\textsuperscript{3}

References