Catalog # 10-1525  
MitoBloCK-12  
CAS# 522-51-0  
1,1’-Decamethylenebis(4-aminoquinaldinium)dichloride; Dequalinium chloride  
MB12; DECA  
Lot # X108275

Attenuates mitochondrial protein import (4-10 μM). Discovered in a screen of FDA-approved drugs. Blocks translocation of a mutant form of alanine: glyoxylate aminotransferase (AGT) to the mitochondria and restores AGT trafficking to peroxisomes.¹ Also reduces oxalate accumulation and thus has potential to treat patients with primary hyperoxaluria 1 who possess mutations in AGT.¹ Also displays antimicrobial activity², inhibits apamin-sensitive K⁺ channels³ and induces apoptosis by inhibiting XIAP⁴.

1) Miyata et al. (2014), Pharmacologic rescue of an enzyme-trafficking defect in primary hyperoxaluria 1; Proc. Natl. Acad. Sci. USA 111 14406  
2) Frey Tirri et al. (2011), Antimicrobial topical agents used in the vagina; Curr. Probl. Dermatol. 40 36  
4) Orzaez et al. (2011), Characterization of dequalinium as a XIAP antagonist that targets the BIR2 domain; Apoptosis 16 460

**PHYSICAL DATA**

Molecular Weight: 527.58  
Molecular Formula: C₃₀H₄₀Cl₂N₄  
Purity: >98% by TLC  
NMR: (Conforms)  
Solubility: DMSO (1 mg/ml with warming), or Water (1 mg/ml)  
Physical Description: Beige solid  
Storage and Stability: Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 3 months

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