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Chemistry

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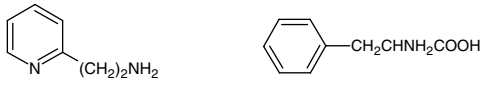
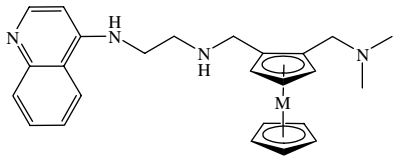
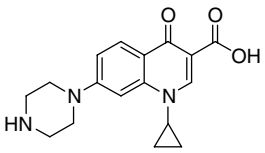
ARTICLES



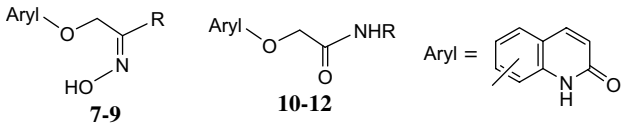


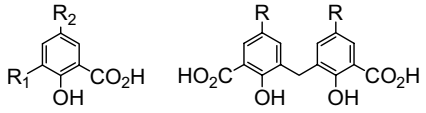
A series of ferrocenyl and ruthenocenyl analogues of ferroquine have been synthesized and tested for efficacy against both chloroquine-resistant and chloroquine-sensitive strains of *Plasmodium falciparum*.

The quinolone analog SQ-4004 has been identified as a potentially excellent anti-ischemic agent, which exhibited highly potent efficacy in reducing infarct volume size in in vivo rat MCAO model (32.1% at 0.01 mg/kg) and potent cardioprotective effect at myocardial infarction in vivo model (26.6% at 0.01 mg/kg) while it exhibited highly reduced anti-bacterial activity.

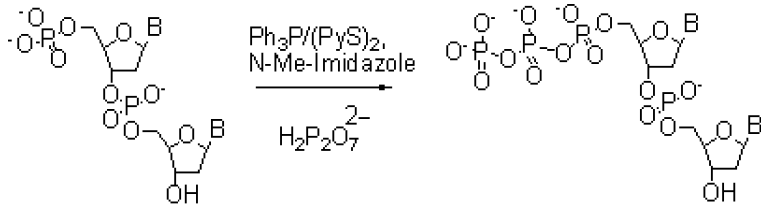


SQ-4004

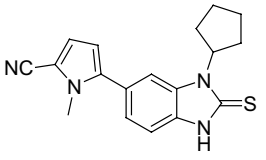




Compound **3c** (R = Ph) inhibited PTP1B in vitro and suppressed diet-induced weight gain in mice.



Successful synthetic procedure for the conversion of 5′-monophosphorylated 2′-deoxydinucleotides into their 5′-triphosphate derivatives in satisfactory to excellent yields.



OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

Terfenadine (an antihistamine pulled from the market in 1997) bound to a model of an open form of the homo-tetrameric pore domain of hERG, produced using Schrödinger's ''Induced Fit Docking'' technology [Farid, R.; Day, T.; Friesner, R. A.; Pearlstein, R. A. *Bioorg. Med. Chem.* **2006,** *14*, 3160–3173].

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