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SUBSTITUTED FLUOROQUINOLONES

Authors: Valery N. Charushin, Nataliya N. Mochulskaya,
Fedor V. Antipin, Svetlana K. Kotovskaya, Emiliya V.
Nosova, Marina A. Ezhikova, Mikhail I. Kodess, Marionella
A. Kravchenko



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SYNTHESIS AND ANTIMYCOBACTERIAL EVALUATION OF NEW (2-OXO-2H-CHROMEN-3-YL) SUBSTITUTED FLUOROQUINOLONES

Valery N. Charushin,^{a,b} Nataliya N. Mochulskaya,^{*a,b} Fedor V. Antipin,^a

Svetlana K. Kotovskaya,^{a,b} Emiliya V. Nosova,^{a,b} Marina A. Ezhikova,^b

Mikhail I. Kodess,^{a,b} Marionella A. Kravchenko^c

^a *Chemical Technology Institute, Ural Federal University, 19 Mira st.,
Ekaterinburg 620002, Russia. E-mail: nataliya.mochulskaya@mail.ru*

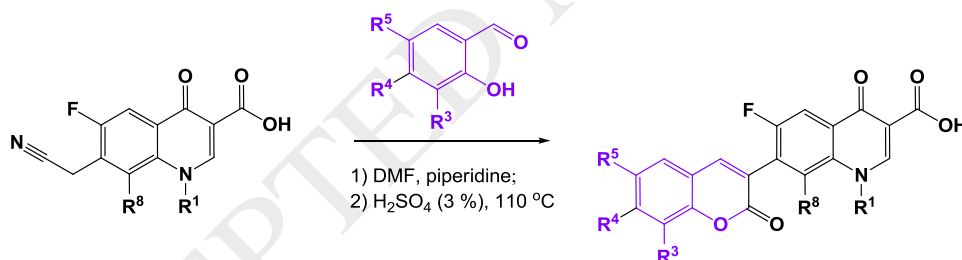
^b *Postovsky Institute of Organic Synthesis, Ural Branch of the Russian Academy of Sciences
22 S. Kovalevskaya st. /20 Akademicheskaya st., Ekaterinburg 620137, Russia*

^c *Ural Research Institute for Phthisiopulmonology, 50 XXII Parts'ezda St.,*

Ekaterinburg 620039, Russia

* corresponding author

Graphical Abstract



Highlights

- The cyanomethyl fragment was incorporated into the benzene ring of fluoroquinolones
- Cyanomethyl fluoroquinolones was converted to (2-oxo-2H-chromen-3-yl) fluoroquinolones
- Substitution of another fluorine atom provides 1,4-dihydro[1]-benzoxepino[2,3-g]quinolones
- Some of new fluoroquinolones exhibit antimicobacterial activity

Abstract

An efficient method for incorporation of the cyanomethyl fragment into the benzene ring of bi- and tricyclic fluoroquinolones through the nucleophilic substitution of a fluorine atom with carbanions derived

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