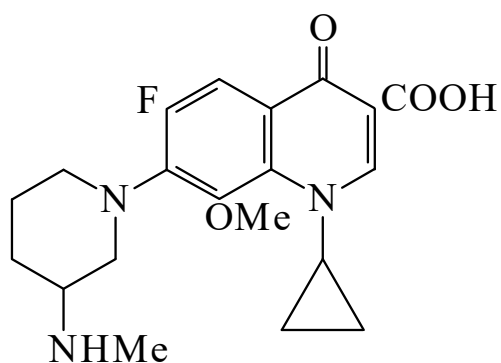




>>Entry Name: Balofloxacin, INN

Synonym(s): 1-Cyclopropyl-6-fluoro-1,4-dihydro-8-methoxy-7-[3-(methylamino)-1-piperidinyl]-4-oxo-3-quinolinecarboxylic acid, 9CI



CAS Registry Number: 127294-70-6

Related CAS Registry Numbers(s): 151060-21-8 151060-22-9 152695-77-7

Molecular Formula: C₂₀H₂₄FN₃O₄

Molecular Weight: 389.426

Accurate Mass: 389.175085

Percentage Composition: C 61.69%; H 6.21%; F 4.88%; N 10.79%; O 16.43%

Use/Importance: Antibacterial agent

>>Variant: (±)-form

Synonym(s): Q-35

Molecular Formula: C₂₀H₂₄FN₃O₄

Molecular Weight: 389.426

Accurate Mass: 389.175085

Percentage Composition: C 61.69%; H 6.21%; F 4.88%; N 10.79%; O 16.43%

Physical Description: Needles (MeOH aq.) or yellow prisms (2-propanol aq.)

Melting Point: Mp 134-135°. Mp 192-193°

References:

Eur. Pat., 1989, *Chugai*, 342 675; *CA*, **113**, 6175j, (*synth, pharmacol*)

Ito, A. *et al.*, *Antimicrob. Agents Chemother.*, 1992, **36**, 1708, (*pharmacol*)

Matsumoto, M. *et al.*, *Antimicrob. Agents Chemother.*, 1992, **36**, 1715, (*uv, photostability*)

Nawata, Y. *et al.*, *Anal. Sci.*, 1993, **9**, 563; 565, (*cryst struct, abs config*)

Takashima, I. *et al.*, *Antimicrob. Agents Chemother.*, 1993, **37**, 901, (*pharmacol*)

Nakagawa, T. *et al.*, *Arzneim.-Forsch.*, 1995, **45**, 716; 719, (*hplc, pharmacokinet*)