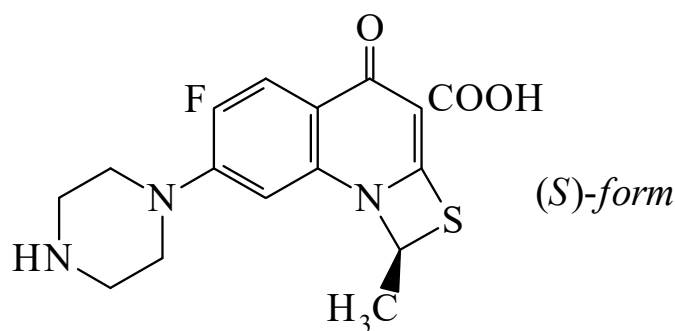




>>Entry Name: 6-Fluoro-1-methyl-4-oxo-7-(1-piperazinyl)-1*H*,4*H*-[1,3]thiazeto[3,2-*a*]quinoline-3-carboxylic acid, 9Cl
Synonym(s): NM 394. NAD 394



CAS Registry Number: 112984-60-8

Molecular Formula: C₁₆H₁₆FN₃O₃S

Molecular Weight: 349.385

Accurate Mass: 349.08964

Percentage Composition: C 55.00%; H 4.62%; F 5.44%; N 12.03%; O 13.74%; S 9.18%

Biological Use/Importance: Antibacterial agent. Poorly absorbed from gastrointestinal tract

Other Data: Active form of prodrug Prulifloxacin [NNQ91-B](#)

>>Variant: (*R*)-form

CAS Registry Number: 138382-95-3

Molecular Formula: C₁₆H₁₆FN₃O₃S

Molecular Weight: 349.385

Accurate Mass: 349.08964

Percentage Composition: C 55.00%; H 4.62%; F 5.44%; N 12.03%; O 13.74%; S 9.18%

Physical Description: Powder

Melting Point: Mp 300 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +140.2$ (c, 0.93 in 0.1*M* NaOH)

Other Data: Mp > 300° (dec.)

>>Variant: (*S*)-form

CAS Registry Number: 138382-93-1

Molecular Formula: C₁₆H₁₆FN₃O₃S

Molecular Weight: 349.385

Accurate Mass: 349.08964

Percentage Composition: C 55.00%; H 4.62%; F 5.44%; N 12.03%; O 13.74%; S 9.18%

Physical Description: Powder

Melting Point: Mp 300 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -149.7$ (c, 0.86 in 0.1*M* NaOH)

Other Data: Mp > 300° (dec.). Pharmacol. active isomer

>>Variant: (±)-form

CAS Registry Number: 138330-14-0

Molecular Formula: C₁₆H₁₆FN₃O₃S

Molecular Weight: 349.385

Accurate Mass: 349.08964

Percentage Composition: C 55.00%; H 4.62%; F 5.44%; N 12.03%; O 13.74%; S 9.18%

Physical Description: Pale yellow cryst. (CHCl₃/MeOH)

Melting Point: Mp 215-218 dec.°

>>Derivative: Et ester

CAS Registry Number: 113028-17-4

Molecular Formula: C₁₈H₂₀FN₃O₃S

Molecular Weight: 377.439

Accurate Mass: 377.12094

Percentage Composition: C 57.28%; H 5.34%; F 5.03%; N 11.13%; O 12.72%; S 8.50%

Physical Description: Cryst.

Melting Point: Mp 230°

References: