

**1-Cyclopropyl-6-fluoro-7-(4-formylpiperazin-1-yl)-
4-oxo-1,4-dihydroquinoline-3-carboxylic acid.
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hu_yiqiao@yahoo.com.cn**Key indicators**Single-crystal X-ray study
 $T = 293$ K
Mean $\sigma(C-C) = 0.003$ Å
 R factor = 0.050
 wR factor = 0.140
Data-to-parameter ratio = 13.3For details of how these key indicators were
automatically derived from the article, see
<http://journals.iucr.org/e>.The crystal structure of the title compound, $C_{18}H_{18}FN_3O_4$, was published [Li *et al.* (2005). *Acta Cryst.* E61, o2235–o2236] with an error in the chemical formula and without location of the carboxyl H atom. This has now been corrected. The missing H atom was located and refined. This H atom is involved in an intramolecular O–H...O hydrogen bond with the carbonyl O atom.**Experimental***Crystal data* $C_{18}H_{18}FN_3O_4$
 $M_r = 359.35$
Triclinic, $P\bar{1}$
 $a = 8.414$ (2) Å
 $b = 9.513$ (2) Å
 $c = 10.497$ (2) Å
 $\alpha = 102.57$ (3)°
 $\beta = 96.58$ (3)°
 $\gamma = 97.08$ (3)°
 $V = 805.1$ (3) Å³ $Z = 2$
 $D_x = 1.482$ Mg m⁻³
Mo $K\alpha$ radiation
Cell parameters from 25
reflections
 $\theta = 9$ –13°
 $\mu = 0.11$ mm⁻¹
 $T = 293$ (2) K
Block, yellow
0.48 × 0.21 × 0.19 mm*Data collection*Enraf–Nonius CAD-4
diffractometer
 $\omega/2\theta$ scans
Absorption correction: ψ scan
(*XCAD4*; Harms & Wocadlo,
1995)
 $T_{\min} = 0.947$, $T_{\max} = 0.979$
3379 measured reflections
3154 independent reflections1822 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.027$
 $\theta_{\text{max}} = 26.0^\circ$
 $h = 0 \rightarrow 10$
 $k = -11 \rightarrow 11$
 $l = -12 \rightarrow 12$
3 standard reflections
every 200 reflections
intensity decay: none*Refinement*Refinement on F^2
 $R[F^2 > 2\sigma(F^2)] = 0.050$
 $wR(F^2) = 0.140$
 $S = 1.01$
3154 reflections
238 parameters
H atoms treated by a mixture of
independent and constrained
refinement $w = 1/[\sigma^2(F_o^2) + (0.06P)^2 + 0.035P]$
where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\text{max}} = 0.001$
 $\Delta\rho_{\text{max}} = 0.19$ e Å⁻³
 $\Delta\rho_{\text{min}} = -0.23$ e Å⁻³**Table 1**
Hydrogen-bond geometry (Å, °).

$D-H\cdots A$	$D-H$	$H\cdots A$	$D\cdots A$	$D-H\cdots A$
O3–H3...O2	0.90 (1)	1.69 (2)	2.514 (3)	151 (3)

ReferencesHarms, K. & Wocadlo, S. (1995) *XCAD4*. University of Marburg, Germany.
Li, X.-W., Zhi, F., Shen, J.-H. & Hu, Y.-Q. (2005). *Acta Cryst.* E61, o2235–
o2236.

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