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N-(4-Chlorophenyl)-3,4,5-trimethoxybenzamide

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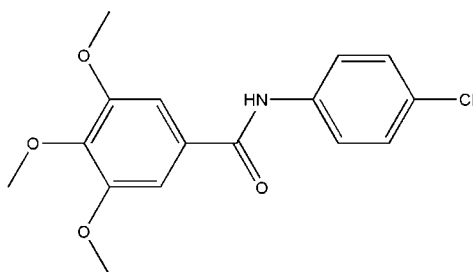
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 Key indicators: single-crystal X-ray study; $T = 120$ K; mean $\sigma(\text{C}-\text{C}) = 0.004$ Å; R factor = 0.046; wR factor = 0.107; data-to-parameter ratio = 17.7.

In the title compound, $\text{C}_{16}\text{H}_{16}\text{ClNO}_4$, the dihedral angle between the two aromatic rings is $67.33(8)^\circ$. The crystal packing shows strong intermolecular $\text{N}-\text{H}\cdots\text{O}$ hydrogen bonds that link the molecules to form chains along $[101]$.

Related literature

For related literature, see: Capdeville *et al.* (2002); Ho *et al.* (2002); Igawa *et al.* (1999); Jackson *et al.* (1994); Makino *et al.* (2003); Zhichkin *et al.* (2007).



Experimental

Crystal data

 $\text{C}_{16}\text{H}_{16}\text{ClNO}_4$
 $M_r = 321.75$

 Monoclinic, Cc
 $a = 9.487(2)$ Å

 $b = 25.666(6)$ Å

 $c = 6.9781(15)$ Å

 $\beta = 112.340(5)^\circ$
 $V = 1571.5(6)$ Å³
 $Z = 4$

 Mo $K\alpha$ radiation

 $\mu = 0.26$ mm⁻¹
 $T = 120(2)$ K

 $0.41 \times 0.10 \times 0.10$ mm

Data collection

Bruker SMART APEX

diffractometer

Absorption correction: multi-scan

(SADABS; Sheldrick, 2004)

 $T_{\min} = 0.901$, $T_{\max} = 0.975$

6765 measured reflections

3581 independent reflections

 3104 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.040$

Refinement

 $R[F^2 > 2\sigma(F^2)] = 0.045$
 $wR(F^2) = 0.106$
 $S = 1.02$

3581 reflections

202 parameters

2 restraints

H-atom parameters constrained

 $\Delta\rho_{\text{max}} = 0.33$ e Å⁻³
 $\Delta\rho_{\text{min}} = -0.24$ e Å⁻³

Absolute structure: Flack (1983),

with 1780 Friedel pairs

Flack parameter: 0.06 (6)

Table 1

Hydrogen-bond geometry (Å, °).

$D-\text{H}\cdots A$	$D-\text{H}$	$\text{H}\cdots A$	$D\cdots A$	$D-\text{H}\cdots A$
$\text{N1}-\text{H1}\cdots\text{O1}^i$	0.88	2.18	2.878 (3)	136

 Symmetry code: (i) $x + \frac{1}{2}, -y + \frac{3}{2}, z + \frac{1}{2}$.

Data collection: SMART (Bruker, 2002); cell refinement: SAINT (Bruker, 2002); data reduction: SAINT; program(s) used to solve structure: SHELXS97 (Sheldrick, 2008); program(s) used to refine structure: SHELXL97 (Sheldrick, 2008); molecular graphics: SHELXTL (Sheldrick, 2008); software used to prepare material for publication: SHELXTL.

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: BT2747).

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supporting information

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N-(4-Chlorophenyl)-3,4,5-trimethoxybenzamide

Aamer Saeed, Rasheed Ahmad Khera, Mahira Batool, Uzma Shaheen and Ulrich Flörke

S1. Comment

The benzanilide core is present in compounds with a wide range of biological activities that it has been called a privileged structure. Benzanilides serve as intermediates towards benzothiadiazin-4-ones (Makino *et al.*, 2003), benzodiazepine-2,5-diones (Ho *et al.*, 20022), and 2,3-disubstituted 3*H*-quinazoline-4-ones (Zhichkin *et al.*, 2007). Benzanilides have established their efficacy as centroid elements of ligands that bind to a wide variety of receptor types. Thus benzanilides containing aminoalkyl groups originally designed as a peptidomimetic, have been incorporated in an Arg-Gly-Asp cyclic peptide yielding a high affinity GPIIb/IIIa ligand (Jackson *et al.*, 1994). Imatinib is an ATP-site binding kinase inhibitor and platelet-derived growth factor receptor kinases (Capdeville *et al.*, 2002). Benzamides have activities as acetyl-CoA carboxylase and farnesyl transferase inhibitors (Igawa *et al.*, 1999)

Geometric parameters of the title compound, C₁₆H₁₆ClNO₄, are in the usual ranges. The dihedral angle between the two aromatic rings is 67.33 (8)° and the torsion angles N1—C1—C2—C3 and C1—N1—C11—C12 are -31.1 (3)° and -39.2 (4)°, respectively. Of the three methoxy groups two of them lie nearly in plane with the aromatic ring, the O(3) group is almost perpendicular with C9—O3—C5—C4 of 92.2 (3)°. The crystal packing shows strong intermolecular N—H···O bonds that link molecules to endless chains along [-101]. Details are given in Table 1.

S2. Experimental

Trimethoxybenzoyl chloride (5.4 mmol) in CHCl₃ was treated with 4-chloroaniline (21.6 mmol) under a nitrogen atmosphere at reflux for 4 h. Upon cooling, the reaction mixture was diluted with CHCl₃ and washed consecutively with aq 1 M HCl and saturated aq NaHCO₃. The organic layer was dried over anhydrous sodium sulfate and concentrated under reduced pressure. Crystallization of the residue in CHCl₃ afforded the title compound (84%) as white needles: IR (KBr) 3226, 1665, 1616, 1520, 1352 cm⁻¹; ¹H NMR (CDCl₃, 400 MHz) δ 8.13 (d, J = 8 Hz, 1H), 7.81 (d, J = 8 Hz, 1H), 7.51 (dd, J = 8 Hz, 1H), 7.66 (dd, J = 8 Hz, 1H), 7.43 (d, J = 8 Hz, 2H), 7.36 (br s, 1H), 7.25 (d, J = 8 Hz, 1H), 3.89 (9H, s, OMex3). Anal. Calcd. For C₁₆H₁₆ClNO₄, C, 59.73; H, 5.01; 11.02; N, 4.35; found C, 59.69; H, 5.04; 11.02; N, 4.42

S3. Refinement

Hydrogen atoms were located in difference syntheses, refined at idealized positions riding on the carbon or nitrogen atoms with isotropic displacement parameters $U_{\text{iso}}(\text{H}) = 1.2U_{\text{eq}}(\text{C or N})$ and 1.5U for methyl-C.

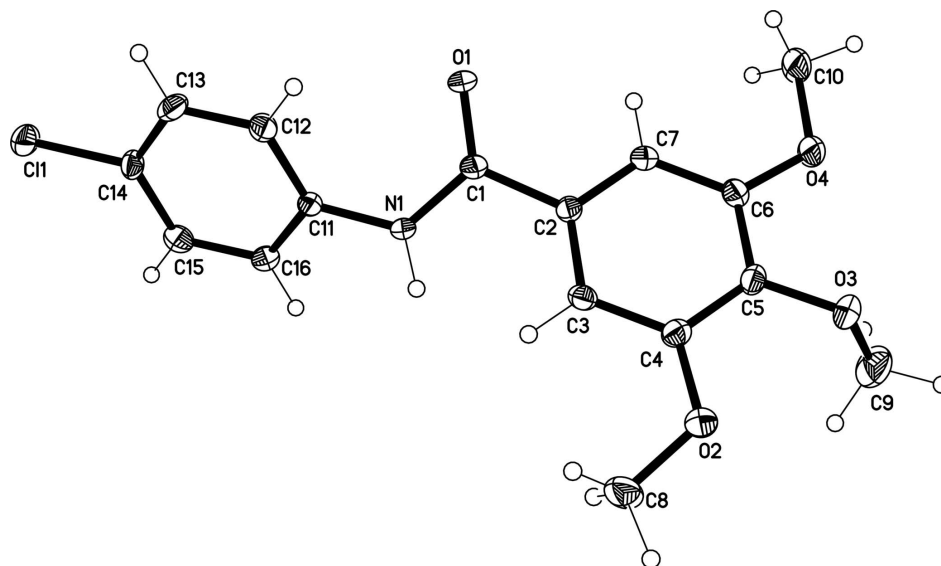


Figure 1

Molecular structure of title compound. Displacement ellipsoids are drawn at the 50% probability level.

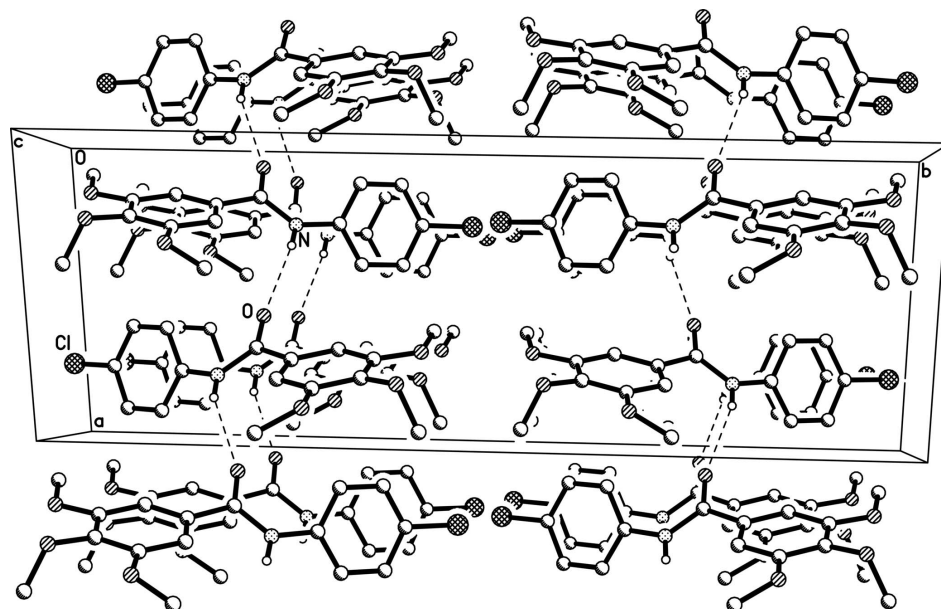


Figure 2

Crystal packing viewed along [001] with intermolecular hydrogen bonding pattern indicated as dashed lines. H-atoms not involved in hydrogen bonding are omitted.

N-(4-Chlorophenyl)-3,4,5-trimethoxybenzamide

Crystal data

$C_{16}H_{16}ClNO_4$

$M_r = 321.75$

Monoclinic, *Cc*

Hall symbol: C -2yc

$a = 9.487(2) \text{ \AA}$

$b = 25.666(6) \text{ \AA}$

$c = 6.9781(15) \text{ \AA}$

$\beta = 112.340(5)^\circ$

$V = 1571.5(6) \text{ \AA}^3$

$Z = 4$

$F(000) = 672$
 $D_x = 1.360 \text{ Mg m}^{-3}$
 Mo $K\alpha$ radiation, $\lambda = 0.71073 \text{ \AA}$
 Cell parameters from 879 reflections
 $\theta = 2.5\text{--}26.6^\circ$

$\mu = 0.26 \text{ mm}^{-1}$
 $T = 120 \text{ K}$
 Prism, colourless
 $0.41 \times 0.10 \times 0.10 \text{ mm}$

Data collection

Bruker SMART APEX
 diffractometer
 Radiation source: sealed tube
 Graphite monochromator
 φ and ω scans
 Absorption correction: multi-scan
 (SADABS; Sheldrick, 2004)
 $T_{\min} = 0.901$, $T_{\max} = 0.975$

6765 measured reflections
 3581 independent reflections
 3104 reflections with $I > 2\sigma(I)$
 $R_{\text{int}} = 0.040$
 $\theta_{\max} = 27.9^\circ$, $\theta_{\min} = 1.6^\circ$
 $h = -12 \rightarrow 12$
 $k = -33 \rightarrow 29$
 $l = -9 \rightarrow 9$

Refinement

Refinement on F^2
 Least-squares matrix: full
 $R[F^2 > 2\sigma(F^2)] = 0.045$
 $wR(F^2) = 0.106$
 $S = 1.02$
 3581 reflections
 202 parameters
 2 restraints
 Primary atom site location: structure-invariant
 direct methods

Secondary atom site location: difference Fourier
 map
 Hydrogen site location: difference Fourier map
 H-atom parameters constrained
 $w = 1/[\sigma^2(F_o^2) + (0.0463P)^2 + 0.1374P]$
 where $P = (F_o^2 + 2F_c^2)/3$
 $(\Delta/\sigma)_{\max} < 0.001$
 $\Delta\rho_{\max} = 0.33 \text{ e \AA}^{-3}$
 $\Delta\rho_{\min} = -0.24 \text{ e \AA}^{-3}$
 Absolute structure: Flack (1983), with 1780
 Friedel pairs
 Absolute structure parameter: 0.06 (6)

Special details

Geometry. All e.s.d.'s (except the e.s.d. in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell e.s.d.'s are taken into account individually in the estimation of e.s.d.'s in distances, angles and torsion angles; correlations between e.s.d.'s in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell e.s.d.'s is used for estimating e.s.d.'s involving l.s. planes.

Refinement. Refinement of F^2 against ALL reflections. The weighted R -factor wR and goodness of fit S are based on F^2 , conventional R -factors R are based on F , with F set to zero for negative F^2 . The threshold expression of $F^2 > \sigma(F^2)$ is used only for calculating R -factors(gt) etc. and is not relevant to the choice of reflections for refinement. R -factors based on F^2 are statistically about twice as large as those based on F , and R -factors based on ALL data will be even larger.

Fractional atomic coordinates and isotropic or equivalent isotropic displacement parameters (\AA^2)

	x	y	z	$U_{\text{iso}}^*/U_{\text{eq}}$
Cl1	0.24506 (8)	0.52096 (2)	-0.45259 (9)	0.03098 (17)
O1	0.0700 (2)	0.75731 (7)	-0.2052 (3)	0.0251 (4)
O2	0.3495 (2)	0.83040 (7)	0.6718 (3)	0.0293 (4)
O3	0.2739 (2)	0.92522 (7)	0.5093 (3)	0.0287 (4)
O4	0.1760 (2)	0.94204 (7)	0.1029 (3)	0.0293 (4)
N1	0.2656 (2)	0.71265 (7)	0.0305 (3)	0.0206 (4)
H1	0.3366	0.7136	0.1562	0.025*
C1	0.1742 (3)	0.75494 (10)	-0.0350 (4)	0.0201 (5)
C2	0.2087 (3)	0.79915 (9)	0.1153 (4)	0.0190 (5)
C3	0.2689 (3)	0.79115 (10)	0.3293 (4)	0.0207 (5)

H3A	0.2926	0.7570	0.3846	0.025*
C4	0.2938 (3)	0.83381 (10)	0.4601 (4)	0.0217 (5)
C5	0.2589 (3)	0.88383 (10)	0.3797 (4)	0.0217 (5)
C6	0.2015 (3)	0.89163 (10)	0.1650 (4)	0.0226 (6)
C7	0.1739 (3)	0.84890 (9)	0.0330 (4)	0.0209 (5)
H7A	0.1314	0.8538	-0.1129	0.025*
C8	0.4275 (4)	0.78426 (12)	0.7598 (5)	0.0380 (7)
H8A	0.3560	0.7549	0.7223	0.057*
H8B	0.4727	0.7878	0.9109	0.057*
H8C	0.5083	0.7779	0.7073	0.057*
C9	0.4195 (4)	0.94971 (13)	0.5730 (6)	0.0457 (8)
H9A	0.4986	0.9251	0.6541	0.069*
H9B	0.4213	0.9803	0.6582	0.069*
H9C	0.4387	0.9606	0.4506	0.069*
C10	0.1094 (4)	0.95144 (11)	-0.1151 (5)	0.0375 (7)
H10A	0.1764	0.9377	-0.1807	0.056*
H10B	0.0960	0.9890	-0.1405	0.056*
H10C	0.0100	0.9341	-0.1736	0.056*
C11	0.2554 (3)	0.66682 (9)	-0.0888 (4)	0.0194 (5)
C12	0.1169 (3)	0.64558 (10)	-0.2157 (4)	0.0238 (5)
H12A	0.0244	0.6618	-0.2258	0.029*
C13	0.1133 (3)	0.60093 (10)	-0.3273 (4)	0.0269 (6)
H13A	0.0184	0.5868	-0.4158	0.032*
C14	0.2479 (3)	0.57674 (10)	-0.3103 (4)	0.0218 (5)
C15	0.3862 (3)	0.59685 (10)	-0.1809 (4)	0.0259 (6)
H15A	0.4784	0.5798	-0.1675	0.031*
C16	0.3897 (3)	0.64200 (10)	-0.0706 (4)	0.0250 (6)
H16A	0.4847	0.6561	0.0182	0.030*

Atomic displacement parameters (Å²)

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
C11	0.0333 (3)	0.0268 (3)	0.0286 (3)	0.0033 (3)	0.0071 (3)	-0.0101 (3)
O1	0.0181 (9)	0.0240 (10)	0.0225 (9)	0.0011 (7)	-0.0043 (7)	-0.0031 (7)
O2	0.0373 (11)	0.0277 (10)	0.0193 (9)	0.0051 (8)	0.0066 (8)	0.0008 (8)
O3	0.0346 (11)	0.0236 (9)	0.0262 (10)	-0.0009 (8)	0.0097 (8)	-0.0075 (8)
O4	0.0406 (12)	0.0171 (9)	0.0248 (10)	0.0013 (8)	0.0062 (9)	0.0014 (8)
N1	0.0170 (10)	0.0186 (10)	0.0186 (10)	0.0016 (8)	-0.0019 (8)	-0.0021 (9)
C1	0.0157 (11)	0.0203 (12)	0.0207 (13)	-0.0004 (9)	0.0026 (11)	-0.0003 (10)
C2	0.0154 (12)	0.0179 (12)	0.0214 (13)	-0.0006 (9)	0.0046 (10)	-0.0017 (10)
C3	0.0172 (11)	0.0188 (12)	0.0221 (13)	-0.0002 (9)	0.0027 (10)	0.0033 (10)
C4	0.0218 (13)	0.0241 (14)	0.0184 (13)	-0.0003 (10)	0.0068 (11)	-0.0015 (10)
C5	0.0218 (12)	0.0203 (13)	0.0230 (13)	-0.0009 (10)	0.0085 (11)	-0.0056 (10)
C6	0.0227 (13)	0.0181 (13)	0.0248 (14)	0.0016 (10)	0.0065 (11)	0.0010 (10)
C7	0.0192 (11)	0.0211 (13)	0.0187 (12)	0.0010 (9)	0.0029 (10)	0.0005 (10)
C8	0.052 (2)	0.0397 (17)	0.0211 (14)	0.0166 (15)	0.0126 (14)	0.0076 (13)
C9	0.0401 (18)	0.0386 (18)	0.050 (2)	-0.0104 (14)	0.0079 (16)	-0.0163 (15)
C10	0.058 (2)	0.0190 (14)	0.0282 (15)	0.0046 (13)	0.0084 (14)	0.0044 (12)

C11	0.0225 (12)	0.0159 (12)	0.0161 (11)	-0.0007 (9)	0.0031 (10)	0.0018 (9)
C12	0.0176 (12)	0.0218 (13)	0.0294 (14)	0.0030 (10)	0.0059 (11)	-0.0023 (11)
C13	0.0200 (13)	0.0283 (15)	0.0255 (14)	-0.0029 (10)	0.0011 (11)	-0.0080 (11)
C14	0.0286 (13)	0.0161 (12)	0.0209 (13)	0.0003 (10)	0.0095 (11)	-0.0039 (10)
C15	0.0208 (13)	0.0263 (14)	0.0285 (14)	0.0057 (10)	0.0069 (11)	0.0015 (11)
C16	0.0191 (13)	0.0233 (14)	0.0255 (14)	-0.0013 (10)	0.0005 (11)	-0.0014 (11)

Geometric parameters (Å, °)

C11—C14	1.737 (2)	C8—H8A	0.9800
O1—C1	1.225 (3)	C8—H8B	0.9800
O2—C4	1.369 (3)	C8—H8C	0.9800
O2—C8	1.408 (3)	C9—H9A	0.9800
O3—C5	1.367 (3)	C9—H9B	0.9800
O3—C9	1.426 (4)	C9—H9C	0.9800
O4—C6	1.357 (3)	C10—H10A	0.9800
O4—C10	1.429 (4)	C10—H10B	0.9800
N1—C1	1.356 (3)	C10—H10C	0.9800
N1—C11	1.423 (3)	C11—C16	1.386 (4)
N1—H1	0.8800	C11—C12	1.386 (4)
C1—C2	1.494 (3)	C12—C13	1.378 (4)
C2—C7	1.387 (3)	C12—H12A	0.9500
C2—C3	1.397 (4)	C13—C14	1.384 (4)
C3—C4	1.387 (3)	C13—H13A	0.9500
C3—H3A	0.9500	C14—C15	1.380 (4)
C4—C5	1.390 (4)	C15—C16	1.385 (4)
C5—C6	1.400 (3)	C15—H15A	0.9500
C6—C7	1.392 (4)	C16—H16A	0.9500
C7—H7A	0.9500		
C4—O2—C8	116.6 (2)	H8B—C8—H8C	109.5
C5—O3—C9	113.2 (2)	O3—C9—H9A	109.5
C6—O4—C10	117.0 (2)	O3—C9—H9B	109.5
C1—N1—C11	124.9 (2)	H9A—C9—H9B	109.5
C1—N1—H1	117.5	O3—C9—H9C	109.5
C11—N1—H1	117.5	H9A—C9—H9C	109.5
O1—C1—N1	123.0 (2)	H9B—C9—H9C	109.5
O1—C1—C2	121.6 (2)	O4—C10—H10A	109.5
N1—C1—C2	115.5 (2)	O4—C10—H10B	109.5
C7—C2—C3	120.9 (2)	H10A—C10—H10B	109.5
C7—C2—C1	117.0 (2)	O4—C10—H10C	109.5
C3—C2—C1	122.0 (2)	H10A—C10—H10C	109.5
C4—C3—C2	119.1 (2)	H10B—C10—H10C	109.5
C4—C3—H3A	120.5	C16—C11—C12	119.5 (2)
C2—C3—H3A	120.5	C16—C11—N1	118.1 (2)
O2—C4—C3	124.0 (2)	C12—C11—N1	122.4 (2)
O2—C4—C5	115.4 (2)	C13—C12—C11	120.1 (2)
C3—C4—C5	120.6 (2)	C13—C12—H12A	119.9

O3—C5—C4	120.1 (2)	C11—C12—H12A	119.9
O3—C5—C6	119.8 (2)	C12—C13—C14	120.0 (2)
C4—C5—C6	120.0 (2)	C12—C13—H13A	120.0
O4—C6—C7	125.0 (2)	C14—C13—H13A	120.0
O4—C6—C5	115.3 (2)	C15—C14—C13	120.3 (2)
C7—C6—C5	119.6 (2)	C15—C14—C11	119.1 (2)
C2—C7—C6	119.7 (2)	C13—C14—C11	120.5 (2)
C2—C7—H7A	120.1	C14—C15—C16	119.5 (2)
C6—C7—H7A	120.1	C14—C15—H15A	120.2
O2—C8—H8A	109.5	C16—C15—H15A	120.2
O2—C8—H8B	109.5	C15—C16—C11	120.5 (2)
H8A—C8—H8B	109.5	C15—C16—H16A	119.8
O2—C8—H8C	109.5	C11—C16—H16A	119.8
H8A—C8—H8C	109.5		
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C11—N1—C1—O1	1.5 (4)	O3—C5—C6—O4	5.1 (3)
C11—N1—C1—C2	-178.5 (2)	C4—C5—C6—O4	-177.9 (2)
O1—C1—C2—C7	-29.2 (3)	O3—C5—C6—C7	-174.4 (2)
N1—C1—C2—C7	150.8 (2)	C4—C5—C6—C7	2.6 (4)
O1—C1—C2—C3	148.9 (2)	C3—C2—C7—C6	1.1 (4)
N1—C1—C2—C3	-31.1 (3)	C1—C2—C7—C6	179.2 (2)
C7—C2—C3—C4	0.0 (4)	O4—C6—C7—C2	178.2 (2)
C1—C2—C3—C4	-178.0 (2)	C5—C6—C7—C2	-2.4 (4)
C8—O2—C4—C3	19.9 (4)	C1—N1—C11—C16	143.0 (3)
C8—O2—C4—C5	-161.6 (3)	C1—N1—C11—C12	-39.2 (4)
C2—C3—C4—O2	178.7 (2)	C16—C11—C12—C13	-1.8 (4)
C2—C3—C4—C5	0.2 (4)	N1—C11—C12—C13	-179.6 (2)
C9—O3—C5—C4	92.2 (3)	C11—C12—C13—C14	1.0 (4)
C9—O3—C5—C6	-90.8 (3)	C12—C13—C14—C15	0.5 (4)
O2—C4—C5—O3	-3.1 (3)	C12—C13—C14—C11	-179.1 (2)
C3—C4—C5—O3	175.5 (2)	C13—C14—C15—C16	-1.1 (4)
O2—C4—C5—C6	179.8 (2)	C11—C14—C15—C16	178.5 (2)
C3—C4—C5—C6	-1.6 (4)	C14—C15—C16—C11	0.3 (4)
C10—O4—C6—C7	2.9 (4)	C12—C11—C16—C15	1.2 (4)
C10—O4—C6—C5	-176.6 (3)	N1—C11—C16—C15	179.1 (2)

Hydrogen-bond geometry (\AA , $^\circ$)

$D-H\cdots A$	$D-H$	$H\cdots A$	$D\cdots A$	$D-H\cdots A$
N1—H1 \cdots O1 ⁱ	0.88	2.18	2.878 (3)	136

Symmetry code: (i) $x+1/2, -y+3/2, z+1/2$.