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N-(4-Chlorophenyl)-4-methoxy-3-(propanamido)benzamide cyclohexane hemisolvate

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Key indicators: single-crystal X-ray study; T = 295 K; mean σ (C–C) = 0.006 Å; disorder in main residue; R factor = 0.044; wR factor = 0.139; data-to-parameter ratio = 10.2.

The title compound, $C_{17}H_{17}CIN_2O_3\cdot 0.5C_6H_{12}$, was prepared by the condensation reaction of 4-methoxy-3-(propanamido)benzoic acid with 4-chloroaniline. The Cl atom, the propionyl CH₃ group and the cyclohexyl CH₂ group are disordered over two sets of sites of equal occupancy in both molecules. The cyclohexane solvent molecule is disordered over two orientations which were modelled with relative occupancies of 0.484 (4) and 0.516 (4). In the crystal, there are a number of N-H···O hydrogen bonds, forming layers perpendicular to (001).

Related literature

N-(4-chlorophenyl)-4-methoxy-3-(propanamido) benzamide is a lead compound with antiviral activity targeting APOBEC3G. For the synthesis and properties of the compound and its derivatives, see: Jiang *et al.* (2009). For APOBEC3G as a target for antiviral drugs, see: Cullen (2006); Mamgeat *et al.* (2003); Cen *et al.*(2004).





 $V = 3887.8 (18) \text{ Å}^3$

 $0.48 \times 0.13 \times 0.08 \text{ mm}$

22780 measured reflections

5742 independent reflections

5349 reflections with $I > 2\sigma(I)$

H-atom parameters constrained

Cu Ka radiation

 $\mu = 1.92 \text{ mm}^-$

T = 295 K

 $R_{\rm int} = 0.037$

68 restraints

 $\Delta \rho_{\rm max} = 0.23 \ {\rm e} \ {\rm \AA}^{-3}$

 $\Delta \rho_{\rm min} = -0.24 \text{ e} \text{ Å}^{-3}$

Z = 8

Experimental

Crystal data

 $C_{17}H_{17}ClN_2O_3 \cdot 0.5C_6H_{12}$ $M_r = 374.86$ Monoclinic, Cc a = 16.005 (3) Å b = 18.953 (4) Å c = 14.811 (3) Å $\beta = 120.08$ (3)°

Data collection

Rigaku MicroMax 002+ diffractometer Absorption correction: multi-scan (*REQAB*; Blessing, 1995) $T_{\rm min} = 0.743, T_{\rm max} = 0.860$

Refinement

 $R[F^2 > 2\sigma(F^2)] = 0.044$ $wR(F^2) = 0.139$ S = 1.115742 reflections 561 parameters

Table 1Hydrogen-bond geometry (Å, °).

$D - H \cdots A$	$D-\mathrm{H}$	$H \cdot \cdot \cdot A$	$D \cdots A$	$D - \mathbf{H} \cdot \cdot \cdot A$
$N2A - H2AA \cdots O1B$	0.86	2.25	3.082 (4)	164
$N2B - H2BA \cdots O1A$	0.86	2.26	3.091 (5)	163
$N1A - H1AA \cdots O2B^{i}$	0.86	2.28	3.040 (4)	147
$N1B - H1BA \cdots O2A^{ii}$	0.86	2.33	3.077 (4)	145

Symmetry codes: (i) $x, -y + 1, z - \frac{1}{2}$; (ii) $x, -y + 1, z + \frac{1}{2}$.

Data collection: *CrystalClear* (Rigaku, 2008); cell refinement: *CrystalClear*; data reduction: *CrystalClear*; program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *ORTEPII* (Johnson,1976) and *PLATON* (Spek, 2009); software used to prepare material for publication: *SHELXL97*.

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Supplementary data and figures for this paper are available from the IUCr electronic archives (Reference: RN2093).

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supplementary materials

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N-(4-Chlorophenyl)-4-methoxy-3-(propanamido)benzamide cyclohexane hemisolvate

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Comment

APOBEC3G (or hA3G, human apolipoprotein B mRNA-editing enzyme-catalytic polypeptide-like-3 G) is a target for antiviral drugs (Cullen, 2006; Mamgeat *et al.*, 2003; Cen *et al.*, 2004). In this research area, *N*-(4-chlorophenyl)-4-meth-oxy-3-(propanamido) benzamide is a lead compound and displays various biological activities (Jiang *et al.*, 2009).

In the molecule of the title compound (I), there are two crystallographically independent benzamide molecules and one cyclohexane molecule in the asymmetric unit. The chlorine, the propionyl CH_3 and cyclohexyl CH_2 are disordered. The isotropic displacement parameters of Cl1 (0.1177), Cl2 (0.1153), Cl6A (0.123) and Cl6B (0.156) are slightly higher than the average equivalent isotropic displacement parameters (0.065). No restraints were used. The occupancies of Cl1, Cl2, Cl6A and Cl6B are all equal to 1. The cyclohexane is disordered having two orientations which have been modelled with relative occupancies of 0.484 (4):0.516 (4). The dihedral angle between the benzene rings in molecule A is 7.86 (25) and this is very similar to that found in molecule B [7.76 (25)]. In the crystal structure, there are a number of N—H…O hydrogen bonds forming layers which are perpendicular to (001). (Table1, Fig. 1).

Experimental

To a solution of 4-methoxy-3-(propanamido)benzoic acid (10 g, 45 mmol) in *N*,*N*-dimethylformamide (150 ml) was added 1-hydroxybenzotriazole (9 g, 66.6 mmol) and *N*,*N*'-diisopropylcarbodiimide (8.5 ml). After stirring for 30 min at room temperature, *p*-chloroaniline (9 g, 70 mmol) was added. The solution was stirred at room temperature until no starting material was presented by TLC. The crude product was poured into water (200 ml), extracted with dichloromethane (300 ml) and washed with 5% NaOH (100 ml), 5% HCl (100 ml) and water. The organic layer was dried over anhydrous Na₂SO₄ and filtered. After the removal of the dichloromethane under reduced pressure, the residue was treated with cyclohexane and filtered. The product, recrystallized with cyclohexane: dichloromethane (1:10), dried *in vacuo* to give *N*-(4-chlorophenyl)-4-methoxy-3-(propanamido) benzamide as a colourless crystalline solid (11.9 g, 79.8%; mp: 423–424 K). ¹H NMR (CDCl₃, δ): 8.89 (1*H*, s, –CONH), 8.19 (1*H*, s, 2-H), 7.811 (1*H*, s, –NHCOR), 7.74 (1*H*, d, 6-H), 7.60 (2*H*, d, 2',6'-H), 7.27 (2*H*, d, 3',5'-H), 6.94 (1*H*, d, 5-H), 3.94 (3*H*, s, –OCH₃), 2.44 (2*H*, q, –CH₂–), 1.24 (3*H*, t, – CH₃). MS (EI, *m*/z): 332 (*M*)⁺.

Single crystals suitable for X-ray analysis were obtained by slow evaporation of a mixed solvent of dichloromethane and cyclohexane (3:1 v/v).

Refinement

All H atoms were placed at calculated positions C—H = 0.93-0.97 Å and N—H = 0.86 Å, and were included in the final cycles of refinement using a riding model, with Uiso(H) = 1.2Ueq(C,N) or 1.5 Ueq(methyl C). The absolute structure cannot be determined reliably.

Computing details

Data collection: *CrystalClear* (Rigaku, 2008); cell refinement: *CrystalClear* (Rigaku, 2008); data reduction: *CrystalClear* (Rigaku, 2008); program(s) used to solve structure: *SHELXS97* (Sheldrick, 2008); program(s) used to refine structure: *SHELXL97* (Sheldrick, 2008); molecular graphics: *ORTEPII* (Johnson, 1976) and *PLATON* (Spek, 2009); software used to prepare material for publication: *SHELXL97* (Sheldrick, 2008).



Figure 1

The molecular structure of (I), showing 40% probability displacement ellipsoids and the atom-numbering scheme. Hydrogen atoms have been omitted for clarity.

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Crystal data	
$C_{17}H_{17}CIN_2O_3 \cdot 0.5C_6H_{12}$	F(000) = 1584
$M_r = 374.86$	$D_{\rm x} = 1.281 {\rm Mg} {\rm m}^{-3}$
Monoclinic, Cc	Cu <i>K</i> α radiation, $\lambda = 1.54178$ Å
Hall symbol: C -2yc	Cell parameters from 5349 reflections
a = 16.005 (3) Å	$\theta = 4.1 - 70.9^{\circ}$
b = 18.953 (4) Å	$\mu = 1.92 \text{ mm}^{-1}$
c = 14.811 (3) Å	T = 295 K
$\beta = 120.08 \ (3)^{\circ}$	Column, colourless
$V = 3887.8 (18) \text{ Å}^3$	$0.48 \times 0.13 \times 0.08 \text{ mm}$
Z = 8	
Data collection	
Rigaku MicroMax 002+	22780 measured reflections
diffractometer	5742 independent reflections
Confocal monochromator	5349 reflections with $I > 2\sigma(I)$
Detector resolution: 22 pixels mm ⁻¹	$R_{\rm int} = 0.037$
ω and k scans	$\theta_{\rm max} = 70.9^{\circ}, \ \theta_{\rm min} = 4.1^{\circ}$
Absorption correction: multi-scan	$h = -18 \rightarrow 19$
(REQAB; Blessing, 1995)	$k = -23 \rightarrow 22$
$T_{\min} = 0.743, \ T_{\max} = 0.860$	$l = -16 \rightarrow 15$

Refinement

Hydrogen site location: inferred from
neighbouring sites
H-atom parameters constrained
$w = 1/[\sigma^2(F_o^2) + (0.0892P)^2 + 0.5054P]$
where $P = (F_o^2 + 2F_c^2)/3$
$(\Delta/\sigma)_{\rm max} < 0.001$
$\Delta \rho_{\rm max} = 0.23 \text{ e } \text{\AA}^{-3}$
$\Delta \rho_{\rm min} = -0.24 \text{ e } \text{\AA}^{-3}$
Absolute structure: Flack, H. D. (1983). <i>Acta</i> <i>Cryst.</i> A 39 , 876–881.
Flack parameter: 0.52 (3)

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 (\hat{A}^2)

	x	У	Z	$U_{ m iso}$ */ $U_{ m eq}$	Occ. (<1)
N1A	-0.0625 (2)	0.42524 (17)	0.6331 (3)	0.0569 (7)	
H1AA	-0.0910	0.4607	0.5932	0.068*	
N2A	-0.3579 (2)	0.58212 (16)	0.5663 (3)	0.0571 (7)	
H2AA	-0.3713	0.6071	0.6059	0.069*	
O1A	-0.0714 (2)	0.34408 (13)	0.7413 (2)	0.0687 (7)	
O2A	-0.3531 (2)	0.58003 (15)	0.4173 (2)	0.0694 (7)	
O3A	-0.46711 (19)	0.49448 (16)	0.6056 (3)	0.0667 (7)	
C1A	-0.2055 (2)	0.42062 (18)	0.6501 (3)	0.0531 (8)	
C2A	-0.2391 (2)	0.48788 (18)	0.6127 (3)	0.0505 (7)	
H2AB	-0.2015	0.5178	0.5978	0.061*	
C3A	-0.3273 (2)	0.51154 (16)	0.5969 (3)	0.0497 (7)	
C4A	-0.3843 (2)	0.4658 (2)	0.6200 (3)	0.0545 (8)	
C5A	-0.3520 (3)	0.3984 (2)	0.6541 (3)	0.0610 (9)	
H5AA	-0.3902	0.3681	0.6675	0.073*	
C6A	-0.2669 (3)	0.37518 (19)	0.6687 (4)	0.0597 (9)	
H6AA	-0.2475	0.3291	0.6911	0.072*	
C7A	-0.1080 (2)	0.39287 (19)	0.6780 (3)	0.0523 (8)	
C8A	0.0276 (2)	0.4055 (2)	0.6465 (3)	0.0522 (7)	
C9A	0.0621 (3)	0.3368 (2)	0.6671 (3)	0.0604 (9)	
H9AA	0.0256	0.3018	0.6750	0.072*	
C11	0.31464 (10)	0.35026 (10)	0.67527 (16)	0.1177 (6)	
C10A	0.1501 (3)	0.3196 (2)	0.6760 (4)	0.0654 (10)	
H10B	0.1727	0.2734	0.6903	0.078*	
C11A	0.2047 (3)	0.3724 (2)	0.6633 (4)	0.0680 (10)	

C12A	0.1709 (3)	0.4410 (2)	0.6417 (4)	0.0717 (11)	
H12A	0.2069	0.4759	0.6328	0.086*	
C13A	0.0836 (3)	0.4570(2)	0.6335 (4)	0.0622 (9)	
H13A	0.0611	0.5032	0.6189	0.075*	
C14A	-0.3674 (3)	0.61284 (18)	0.4788 (3)	0.0591 (9)	
C15A	-0.4024 (10)	0.6898 (8)	0.4512 (13)	0.064 (3)	0.484 (12)
H15A	-0.4686	0.6890	0.3939	0.077*	0.484 (12)
H15B	-0.4031	0.7105	0.5107	0.077*	0.484 (12)
C16A	-0.3529 (13)	0.7316 (6)	0.4250 (18)	0.123 (6)	0.484 (12)
H16A	-0.3817	0.7777	0.4093	0.184*	0.484 (12)
H16B	-0.3530	0.7129	0.3647	0.184*	0.484 (12)
H16C	-0.2877	0.7349	0.4818	0.184*	0.484 (12)
C17A	-0.5253 (3)	0.4521 (3)	0.6330 (5)	0.0782 (13)	
H17A	-0.5820	0.4780	0.6194	0.117*	
H17B	-0.4888	0.4403	0.7058	0.117*	
H17C	-0.5440	0.4096	0.5922	0.117*	
C15C	-0.3918 (17)	0.6888 (10)	0.4789 (14)	0.112 (7)	0.516 (12)
H15E	-0.3379	0.7138	0.5350	0.135*	0.516 (12)
H15F	-0.4476	0.6937	0.4879	0.135*	0.516 (12)
C16C	-0.4151 (10)	0.7194 (6)	0.3671 (10)	0.089 (3)	0.516 (12)
H16G	-0.4165	0.7701	0.3685	0.134*	0.516 (12)
H16H	-0.4766	0.7021	0.3139	0.134*	0.516 (12)
H16I	-0.3659	0.7044	0.3523	0.134*	0.516 (12)
N1B	-0.3835(2)	0.57618 (17)	0.8519 (3)	0.0581 (8)	
H1BA	-0.3542	0.5417	0.8938	0.070*	
N2B	-0.0869(2)	0.41832 (15)	0.9181 (3)	0.0548 (6)	
H2BA	-0.0717	0.3932	0.8801	0.066*	
O1B	-0.3734(2)	0.65530 (14)	0.7432(2)	0.0643(7)	
O2B	-0.0916(2)	0.42044 (14)	1.0684 (2)	0.0660 (7)	
O3B	0.0215 (2)	0.50422 (15)	0.8769 (3)	0.0658 (7)	
C1B	-0.2392(2)	0.58037 (16)	0.8349 (3)	0.0511 (7)	
C2B	-0.2071(2)	0.51160 (18)	0.8719 (3)	0.0512 (7)	
H2BB	-0.2444	0.4816	0.8870	0.061*	
C3B	-0.1196 (2)	0.48916 (18)	0.8854 (3)	0.0517 (7)	
C4B	-0.0613(2)	0.53303 (19)	0.8653 (3)	0.0547 (8)	
C5B	-0.0922(3)	0.6022 (2)	0.8309 (4)	0.0648 (10)	
H5BA	-0.0538	0.6332	0.8188	0.078*	
C6B	-0.1827 (3)	0.62311 (19)	0.8153 (4)	0.0609 (9)	
H6BA	-0.2046	0.6684	0.7904	0.073*	
C7B	-0.3370 (3)	0.60655 (18)	0.8064 (3)	0.0552 (8)	
C8B	-0.4751 (2)	0.5950 (2)	0.8379 (3)	0.0541 (8)	
C9B	-0.5100(3)	0.66379 (19)	0.8161 (3)	0.0571 (8)	
H9BA	-0.4738	0.6990	0.8079	0.069*	
C12	-0.76224(10)	0.64949 (10)	0.80604 (15)	0.1153 (6)	
C10B	-0.5975 (3)	0.6797 (2)	0.8065 (4)	0.0669 (10)	
H10A	-0.6212	0.7255	0.7913	0.080*	
C11B	-0.6490 (3)	0.6285 (3)	0.8194 (4)	0.0711 (10)	
C12B	-0.6169 (3)	0.5602 (2)	0.8417 (4)	0.0712 (10)	
H12B	-0.6536	0.5258	0.8507	0.085*	

C13B	-0.5291 (3)	0.5433 (2)	0.8506 (4)	0.0657 (10)	
H13B	-0.5064	0.4972	0.8652	0.079*	
C14B	-0.0787 (3)	0.38933 (17)	1.0036 (3)	0.0525 (7)	
C15B	-0.0268 (7)	0.3177 (5)	1.0330 (8)	0.0569 (19)	0.484 (12)
H15C	-0.0371	0.2937	0.9703	0.068*	0.484 (12)
H15D	0.0421	0.3250	1.0777	0.068*	0.484 (12)
C16B	-0.063(2)	0.2731 (9)	1.088 (2)	0.156 (11)	0.484 (12)
H16D	-0.0295	0.2289	1.1065	0.234*	0.484 (12)
H16E	-0.1312	0.2647	1.0428	0.234*	0.484 (12)
H16F	-0.0533	0.2969	1.1498	0.234*	0.484 (12)
C17B	0.0820 (3)	0.5476 (3)	0.8560 (4)	0.0778 (12)	
H17D	0.1373	0.5211	0.8669	0.117*	
H17E	0.1027	0.5876	0.9021	0.117*	
H17F	0.0468	0.5636	0.7850	0.117*	
C15D	-0.0695 (7)	0.3084 (4)	1.0053 (7)	0.057 (2)	0.516 (12)
H15G	-0.1333	0.2877	0.9650	0.068*	0.516 (12)
H15H	-0.0323	0.2950	0.9727	0.068*	0.516 (12)
C16D	-0.0232(15)	0.2807 (8)	1.1104 (14)	0.118 (6)	0.516 (12)
H16J	-0.0143	0.2307	1.1087	0.176*	0.516 (12)
H16K	-0.0629	0.2900	1.1406	0.176*	0.516(12)
H16L	0.0385	0.3031	1.1515	0.176*	0.516(12)
C1W	0 2002 (11)	0 2975 (8)	0 9773 (14)	0 122 (7)	0.484(12)
H1WA	0.1604	0 2914	0.9025	0.146*	0.484(12)
HIWB	0.1662	0.2764	1 0094	0.146*	0.484(12)
C2W	0.2111 (13)	0.3737 (8)	1.0007 (14)	0.105(7)	0.484(12)
H2WA	0.2408	0.3805	1.0755	0.126*	0.484(12)
H2WR	0.1478	0.3957	0.9678	0.126*	0.484(12)
C3W	0.1478 0.2715 (11)	0.4087 (6)	0.963 (2)	0.120	0.484(12)
H3WA	0.2358	0.4105	0.8874	0.131*	0.484(12)
H3WB	0.2851	0.4568	0.0888	0.131*	0.484(12)
CAW	0.2630 (10)	0.3712 (8)	0.0078 (15)	0.131 0.113 (7)	0.484(12)
H_{4WA}	0.3030 (10)	0.3757	1.0730	0.115 (7)	0.484(12)
HAWR	0.4028	0.3037	0.0667	0.136*	0.484(12)
C5W	0.3972 0.3403 (13)	0.3932	0.9007	0.130	0.484(12)
	0.3493 (13)	0.2333(8)	0.970 (2)	0.151 (9)	0.484(12)
	0.4110	0.2732	0.9903	0.158*	0.464(12) 0.484(12)
CGW	0.3143 0.2042 (11)	0.2307 0.2582 (4)	0.0747	0.138°	0.484(12)
	0.2942 (11)	0.2582 (4)	1.0143(12)	0.064 (5)	0.484(12)
HOWA	0.3310	0.2581	1.0900	0.101*	0.484(12)
HOWB	0.2814	0.2097	0.9903	0.101^{+}	0.484(12)
	0.2067 (12)	0.2926 (7)	1.0227 (13)	0.104 (4)	0.516(12)
HIWC	0.1466	0.2674	0.9992	0.124*	0.516 (12)
HIWD	0.2459	0.2868	1.0977	0.124*	0.516(12)
C2W ²	0.1881 (16)	0.3618 (12)	1.000 (2)	0.143 (8)	0.516 (12)
H2WC	0.1560	0.3802	1.0356	0.1/2*	0.516 (12)
H2WD	0.1440	0.3668	0.9254	$0.1/2^{*}$	0.516 (12)
C3W'	0.2759 (10)	0.4051 (7)	1.0292 (11)	0.091 (4)	0.516 (12)
H3WC	0.3204	0.4012	1.103/	U.109* 0.100*	0.516 (12)
H3WD	0.2579	0.4543	1.0130	0.109*	0.516 (12)
C4W'	0.3282 (14)	0.37/4(10)	0.9649 (14)	0.112 (7)	0.516 (12)

supplementary materials

H4WC	0.2859	0.3839	0.8905	0.135*	0.516 (12)	
H4WD	0.3876	0.4032	0.9864	0.135*	0.516 (12)	
C5W′	0.3507 (15)	0.2938 (11)	0.993 (3)	0.151 (11)	0.516 (12)	
H5WC	0.3754	0.2729	0.9508	0.181*	0.516 (12)	
H5WD	0.3985	0.2877	1.0657	0.181*	0.516 (12)	
C6W′	0.2609 (14)	0.2609 (8)	0.9694 (12)	0.128 (6)	0.516 (12)	
H6WC	0.2737	0.2116	0.9888	0.153*	0.516 (12)	
H6WD	0.2178	0.2627	0.8944	0.153*	0.516 (12)	

Atomic displacement parameters $(Å^2)$

	U^{11}	U^{22}	U^{33}	U^{12}	U^{13}	U^{23}
N1A	0.0575 (14)	0.0512 (18)	0.070 (2)	0.0041 (11)	0.0384 (12)	0.0116 (12)
N2A	0.0761 (16)	0.0462 (14)	0.0660 (19)	0.0083 (12)	0.0483 (14)	0.0017 (12)
O1A	0.0846 (16)	0.0485 (13)	0.088 (2)	0.0123 (12)	0.0542 (14)	0.0180 (13)
O2A	0.107 (2)	0.0518 (14)	0.0705 (18)	0.0149 (13)	0.0606 (15)	0.0037 (12)
O3A	0.0654 (14)	0.0591 (15)	0.090 (2)	0.0050 (10)	0.0498 (14)	0.0039 (14)
C1A	0.0667 (18)	0.0454 (18)	0.059 (2)	-0.0030 (13)	0.0406 (14)	0.0014 (14)
C2A	0.0595 (16)	0.0430 (15)	0.0573 (19)	-0.0028 (12)	0.0355 (14)	-0.0005 (13)
C3A	0.0651 (17)	0.0362 (14)	0.0558 (19)	-0.0013 (12)	0.0363 (14)	0.0000 (13)
C4A	0.0622 (17)	0.0518 (18)	0.060 (2)	-0.0022 (14)	0.0387 (15)	-0.0016 (14)
C5A	0.071 (2)	0.0449 (16)	0.075 (3)	-0.0065 (15)	0.0428 (18)	0.0072 (16)
C6A	0.074 (2)	0.0410 (15)	0.078 (2)	-0.0112 (14)	0.0484 (18)	0.0012 (15)
C7A	0.0603 (17)	0.0480 (17)	0.059 (2)	0.0034 (13)	0.0374 (15)	0.0039 (14)
C8A	0.0538 (16)	0.0534 (17)	0.0547 (19)	-0.0027 (13)	0.0311 (14)	0.0046 (14)
C9A	0.067 (2)	0.0483 (18)	0.078 (3)	-0.0018 (14)	0.0452 (17)	0.0004 (16)
Cl1	0.0894 (7)	0.1144 (11)	0.1845 (18)	0.0145 (8)	0.0950 (10)	0.0163 (12)
C10A	0.069 (2)	0.057 (2)	0.077 (2)	0.0035 (16)	0.0415 (18)	0.0028 (17)
C11A	0.0633 (19)	0.073 (2)	0.078 (2)	-0.0069 (15)	0.0429 (18)	0.0025 (18)
C12A	0.076 (2)	0.066 (2)	0.092 (3)	-0.0046 (17)	0.056 (2)	0.013 (2)
C13A	0.0729 (19)	0.0485 (19)	0.078 (2)	-0.0050 (15)	0.0475 (18)	0.0087 (17)
C14A	0.085 (2)	0.0374 (16)	0.069 (2)	0.0015 (13)	0.0492 (18)	-0.0011 (14)
C15A	0.113 (6)	0.041 (4)	0.073 (7)	0.018 (4)	0.072 (5)	0.009 (4)
C16A	0.151 (11)	0.048 (4)	0.214 (17)	-0.006 (5)	0.125 (12)	0.001 (6)
C17A	0.070 (2)	0.074 (3)	0.111 (4)	-0.0005 (18)	0.060 (2)	0.005 (2)
C15C	0.243 (18)	0.047 (5)	0.075 (9)	0.025 (6)	0.101 (9)	0.017 (5)
C16C	0.121 (7)	0.055 (5)	0.103 (7)	0.034 (5)	0.065 (6)	0.047 (5)
N1B	0.0671 (16)	0.0512 (18)	0.0622 (19)	0.0120 (12)	0.0372 (13)	0.0144 (12)
N2B	0.0771 (16)	0.0391 (14)	0.0632 (18)	0.0109 (12)	0.0465 (14)	0.0050 (11)
O1B	0.0735 (14)	0.0581 (14)	0.0803 (18)	0.0183 (11)	0.0527 (13)	0.0247 (13)
O2B	0.0976 (18)	0.0465 (13)	0.0721 (17)	0.0102 (11)	0.0561 (14)	0.0042 (11)
O3B	0.0704 (14)	0.0544 (14)	0.091 (2)	0.0045 (11)	0.0542 (14)	0.0065 (13)
C1B	0.0572 (17)	0.0375 (16)	0.060 (2)	0.0019 (11)	0.0309 (13)	0.0015 (13)
C2B	0.0641 (17)	0.0413 (16)	0.059 (2)	0.0009 (13)	0.0385 (15)	0.0046 (13)
C3B	0.0650 (18)	0.0434 (16)	0.055 (2)	0.0069 (13)	0.0360 (15)	0.0027 (13)
C4B	0.0559 (15)	0.0471 (16)	0.066 (2)	0.0020 (13)	0.0342 (14)	-0.0006 (15)
C5B	0.0632 (19)	0.0478 (18)	0.097 (3)	-0.0080 (14)	0.050 (2)	-0.0026 (19)
C6B	0.0647 (18)	0.0395 (15)	0.081 (3)	0.0091 (13)	0.0384 (17)	0.0098 (15)
C7B	0.0698 (19)	0.0379 (15)	0.063 (2)	0.0012 (13)	0.0373 (16)	0.0022 (13)

0.0640 (18)	0.0489 (17)	0.054 (2)	0.0043 (13)	0.0328 (15)	0.0020 (15)
0.0649 (18)	0.0458 (17)	0.064 (2)	-0.0014 (14)	0.0349 (15)	0.0002 (15)
0.0894 (7)	0.1148 (11)	0.1774 (16)	0.0232 (8)	0.0936 (10)	0.0300 (12)
0.074 (2)	0.054 (2)	0.084 (3)	0.0139 (16)	0.0480 (19)	0.0060 (18)
0.071 (2)	0.076 (3)	0.079 (3)	0.0173 (17)	0.0475 (19)	0.0076 (19)
0.071 (2)	0.066 (2)	0.085 (3)	-0.0087 (17)	0.046 (2)	0.002 (2)
0.075 (2)	0.053 (2)	0.079 (3)	0.0097 (16)	0.0460 (18)	0.0108 (18)
0.0629 (17)	0.0419 (16)	0.066 (2)	0.0063 (12)	0.0418 (15)	0.0049 (13)
0.061 (4)	0.050 (3)	0.065 (5)	0.010 (3)	0.036 (4)	0.011 (3)
0.23 (3)	0.073 (8)	0.25 (3)	0.045 (11)	0.18 (2)	0.090 (13)
0.073 (2)	0.080 (3)	0.099 (3)	0.0023 (19)	0.057 (2)	0.013 (2)
0.057 (4)	0.035 (3)	0.074 (5)	0.009 (3)	0.031 (4)	0.003 (3)
0.151 (12)	0.075 (7)	0.109 (9)	0.016 (6)	0.052 (7)	-0.013 (6)
0.127 (9)	0.116 (12)	0.109 (12)	0.002 (8)	0.049 (9)	0.045 (9)
0.137 (17)	0.073 (8)	0.088 (8)	0.027 (10)	0.043 (9)	0.004 (6)
0.103 (8)	0.061 (5)	0.161 (17)	0.015 (5)	0.064 (9)	0.001 (7)
0.082 (9)	0.093 (8)	0.118 (15)	-0.021 (7)	0.016 (8)	0.015 (8)
0.094 (9)	0.161 (17)	0.148 (16)	-0.025 (9)	0.067 (9)	0.029 (11)
0.130 (9)	0.038 (3)	0.102 (8)	0.012 (4)	0.070 (7)	0.019 (4)
0.132 (9)	0.068 (5)	0.101 (9)	-0.019 (6)	0.052 (7)	-0.007 (5)
0.089 (8)	0.127 (13)	0.22 (2)	-0.014 (8)	0.078 (10)	-0.005 (11)
0.111 (9)	0.066 (6)	0.070 (5)	0.012 (5)	0.027 (5)	-0.007 (6)
0.124 (13)	0.112 (12)	0.086 (9)	-0.052 (12)	0.040 (10)	-0.004 (7)
0.132 (13)	0.142 (17)	0.21 (2)	0.079 (13)	0.112 (14)	0.047 (14)
0.149 (13)	0.105 (10)	0.081 (8)	0.026 (8)	0.021 (8)	-0.003 (6)
	0.0640 (18) 0.0649 (18) 0.0894 (7) 0.074 (2) 0.071 (2) 0.075 (2) 0.0629 (17) 0.061 (4) 0.23 (3) 0.073 (2) 0.057 (4) 0.151 (12) 0.157 (9) 0.137 (17) 0.103 (8) 0.082 (9) 0.094 (9) 0.132 (9) 0.132 (9) 0.124 (13) 0.149 (13)	$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{llllllllllllllllllllllllllllllllllll$

Geometric parameters (Å, °)

N1A—C7A	1.355 (5)	C5B—H5BA	0.9300
N1A—C8A	1.404 (4)	C6B—H6BA	0.9300
N1A—H1AA	0.8600	C8B—C13B	1.381 (6)
N2A—C14A	1.358 (5)	C8B—C9B	1.391 (5)
N2A—C3A	1.419 (4)	C9B—C10B	1.369 (6)
N2A—H2AA	0.8600	C9B—H9BA	0.9300
O1A—C7A	1.235 (5)	Cl2—C11B	1.767 (4)
O2A—C14A	1.215 (5)	C10B—C11B	1.347 (7)
O3A—C4A	1.347 (4)	C10B—H10A	0.9300
O3A—C17A	1.434 (5)	C11B—C12B	1.371 (7)
C1A—C2A	1.387 (5)	C12B—C13B	1.382 (6)
C1A—C6A	1.433 (4)	C12B—H12B	0.9300
C1A—C7A	1.496 (5)	C13B—H13B	0.9300
C2A—C3A	1.385 (5)	C14B—C15B	1.537 (9)
C2A—H2AB	0.9300	C14B—C15D	1.541 (8)
C3A—C4A	1.419 (5)	C15B—C16B	1.482 (19)
C4A—C5A	1.375 (5)	C15B—H15C	0.9700
C5A—C6A	1.342 (5)	C15B—H15D	0.9700
С5А—Н5АА	0.9300	C16B—H16D	0.9600
С6А—Н6АА	0.9300	C16B—H16E	0.9600
C8A—C9A	1.387 (5)	C16B—H16F	0.9600
C8A—C13A	1.402 (5)	C17B—H17D	0.9600

C9A—C10A	1.386 (6)	C17B—H17E	0.9600
С9А—Н9АА	0.9300	C17B—H17F	0.9600
Cl1—C11A	1.730 (4)	C15D—C16D	1.45 (2)
C10A—C11A	1.401 (6)	C15D—H15G	0.9700
C10A—H10B	0.9300	C15D—H15H	0.9700
C11A—C12A	1.383 (6)	C16D—H16J	0.9600
C12A—C13A	1.373 (6)	C16D—H16K	0.9600
C12A—H12A	0.9300	C16D—H16L	0.9600
C13A—H13A	0.9300	C1W—C2W	1.476 (16)
C14A—C15C	1.492 (19)	C1W—C6W	1.514 (15)
C14A—C15A	1.543 (15)	C1W—H1WA	0.9700
C15A—C16A	1.310 (19)	C1W—H1WB	0.9700
C15A—H15A	0.9700	C2W—C3W	1.493 (16)
C15A—H15B	0.9700	C2W—H2WA	0.9700
C16A—H16A	0.9600	C2W—H2WB	0.9700
C16A—H16B	0.9600	C3W—C4W	1.469 (15)
C16A—H16C	0.9600	C3W—H3WA	0.9700
C17A—H17A	0.9600	C3W—H3WB	0.9700
C17A—H17B	0.9600	C4W—C5W	1.478 (16)
C17A—H17C	0.9600	C4W—H4WA	0.9700
C15C—C16C	1.61 (2)	C4W—H4WB	0.9700
С15С—Н15Е	0.9700	C5W—C6W	1.513 (15)
C15C—H15F	0.9700	C5W—H5WA	0.9700
C16C—H16G	0.9600	C5W—H5WB	0.9700
С16С—Н16Н	0.9600	C6W—H6WA	0.9700
C16C—H16I	0.9600	C6W—H6WB	0.9700
N1B—C7B	1.357 (5)	C1W'—C2W'	1.35 (3)
N1B—C8B	1.420 (5)	C1W'—C6W'	1.56 (3)
N1B—H1BA	0.8600	C1W'—H1WC	0.9700
N2B—C14B	1.325 (5)	C1W'—H1WD	0.9700
N2B—C3B	1.434 (4)	C2W'—C3W'	1.49 (2)
N2B—H2BA	0.8600	C2W'—H2WC	0.9700
O1B—C7B	1.234 (5)	C2W'—H2WD	0.9700
O2B—C14B	1.228 (5)	C3W'—C4W'	1.64 (3)
O3B—C4B	1.363 (4)	C3W'—H3WC	0.9700
O3B—C17B	1.417 (5)	C3W'—H3WD	0.9700
C1B—C6B	1.349 (5)	C4W'—C5W'	1.63 (2)
C1B—C2B	1.408 (4)	C4W'—H4WC	0.9700
C1B—C7B	1.487 (5)	C4W'—H4WD	0.9700
C2B—C3B	1.378 (5)	C5W'—C6W'	1.44 (3)
C2B—H2BB	0.9300	C5W'—H5WC	0.9700
C3B—C4B	1.389 (5)	C5W'—H5WD	0.9700
C4B—C5B	1.403 (5)	C6W'—H6WC	0.9700
C5B—C6B	1.405 (5)	C6W'—H6WD	0.9700
C7A—N1A—C8A	125.3 (3)	C9B—C10B—H10A	120.2
C7A—N1A—H1AA	117.4	C10B—C11B—C12B	122.1 (4)
C8A—N1A—H1AA	117.4	C10B—C11B—C12	119.2 (3)
C14A—N2A—C3A	124.4 (3)	C12B—C11B—C12	118.6 (4)

C14A—N2A—H2AA	117.8	C11B—C12B—C13B	118.8 (4)
C3A—N2A—H2AA	117.8	C11B—C12B—H12B	120.6
C4A—O3A—C17A	117.1 (3)	C13B—C12B—H12B	120.6
C2A—C1A—C6A	117.6 (3)	C8B—C13B—C12B	119.9 (4)
C2A—C1A—C7A	125.1 (3)	C8B—C13B—H13B	120.0
C6A—C1A—C7A	117.1 (3)	C12B—C13B—H13B	120.0
C3A—C2A—C1A	121.6 (3)	O2B—C14B—N2B	124.9 (3)
C3A—C2A—H2AB	119.2	O2B—C14B—C15B	118.8 (5)
C1A—C2A—H2AB	119.2	N2B—C14B—C15B	114.7 (5)
C2A—C3A—N2A	121.2 (3)	O2B—C14B—C15D	121.2 (5)
C2A—C3A—C4A	119.1 (3)	N2B-C14B-C15D	113.0 (5)
N2A—C3A—C4A	119.5 (3)	C15B—C14B—C15D	23.3 (3)
O3A—C4A—C5A	126.3 (3)	C16B—C15B—C14B	110.6 (10)
O3A—C4A—C3A	114.5 (3)	C16B—C15B—H15C	109.5
C5A—C4A—C3A	119.1 (3)	C14B—C15B—H15C	109.5
C6A—C5A—C4A	121.9 (3)	C16B—C15B—H15D	109.5
С6А—С5А—Н5АА	119.0	C14B—C15B—H15D	109.5
С4А—С5А—Н5АА	119.0	H15C—C15B—H15D	108.1
C5A—C6A—C1A	120.6 (3)	C15B—C16B—H16D	109.5
С5А—С6А—Н6АА	119.7	C15B—C16B—H16E	109.5
С1А—С6А—Н6АА	119.7	H16D—C16B—H16E	109.5
O1A—C7A—N1A	122.9 (3)	C15B—C16B—H16F	109.5
O1A—C7A—C1A	120.4 (3)	H16D—C16B—H16F	109.5
N1A—C7A—C1A	116.7 (3)	H16E—C16B—H16F	109.5
C9A—C8A—C13A	118.2 (3)	O3B—C17B—H17D	109.5
C9A—C8A—N1A	123.2 (3)	O3B—C17B—H17E	109.5
C13A—C8A—N1A	118.5 (3)	H17D—C17B—H17E	109.5
C10A—C9A—C8A	121.0 (3)	O3B—C17B—H17F	109.5
С10А—С9А—Н9АА	119.5	H17D—C17B—H17F	109.5
С8А—С9А—Н9АА	119.5	H17E—C17B—H17F	109.5
C9A—C10A—C11A	119.4 (4)	C16D—C15D—C14B	111.8 (8)
C9A—C10A—H10B	120.3	C16D—C15D—H15G	109.3
C11A—C10A—H10B	120.3	C14B—C15D—H15G	109.3
C12A—C11A—C10A	120.3 (4)	C16D—C15D—H15H	109.2
C12A—C11A—C11	120.7 (3)	C14B—C15D—H15H	109.2
C10A—C11A—C11	118.9 (4)	H15G—C15D—H15H	107.9
C13A—C12A—C11A	119.4 (4)	C15D—C16D—H16J	109.5
C13A—C12A—H12A	120.3	C15D—C16D—H16K	109.5
C11A—C12A—H12A	120.3	H16J—C16D—H16K	109.5
C12A—C13A—C8A	121.7 (4)	C15D—C16D—H16L	109.5
C12A—C13A—H13A	119.1	H16J—C16D—H16L	109.5
C8A—C13A—H13A	119.1	H16K—C16D—H16L	109.5
O2A—C14A—N2A	121.5 (3)	C2W—C1W—C6W	114.7 (11)
O2A—C14A—C15C	130.0 (8)	C2W—C1W—H1WA	108.6
N2A—C14A—C15C	108.4 (7)	C6W—C1W—H1WA	108.6
O2A—C14A—C15A	117.7 (7)	C2W—C1W—H1WB	108.6
N2A—C14A—C15A	120.7 (7)	C6W—C1W—H1WB	108.6
C15C—C14A—C15A	13.4 (11)	H1WA—C1W—H1WB	107.6
C16A—C15A—C14A	117.2 (10)	C1W—C2W—C3W	111.7 (11)

C16A—C15A—H15A	108.0	C1W—C2W—H2WA	109.3
C14A—C15A—H15A	108.0	C3W—C2W—H2WA	109.3
C16A—C15A—H15B	108.0	C1W—C2W—H2WB	109.3
C14A—C15A—H15B	108.0	C3W—C2W—H2WB	109.3
H15A—C15A—H15B	107.2	H2WA—C2W—H2WB	107.9
C15A—C16A—H16A	109.5	C4W—C3W—C2W	111.8 (13)
C15A—C16A—H16B	109.5	C4W—C3W—H3WA	109.3
H16A—C16A—H16B	109.5	C2W—C3W—H3WA	109.2
C15A—C16A—H16C	109.5	C4W—C3W—H3WB	109.3
H16A—C16A—H16C	109.5	C2W—C3W—H3WB	109.3
H16B—C16A—H16C	109.5	H3WA—C3W—H3WB	107.9
O3A—C17A—H17A	109.5	C3W—C4W—C5W	112.9 (12)
O3A—C17A—H17B	109.5	C3W—C4W—H4WA	109.0
H17A—C17A—H17B	109.5	C5W—C4W—H4WA	109.0
O3A—C17A—H17C	109.5	C3W—C4W—H4WB	109.0
H17A—C17A—H17C	109.5	C5W—C4W—H4WB	109.0
H17B—C17A—H17C	109.5	H4WA—C4W—H4WB	107.8
C14A—C15C—C16C	105.8 (12)	C4W—C5W—C6W	111.7 (14)
C14A—C15C—H15E	110.6	C4W—C5W—H5WA	109.3
C16C—C15C—H15E	110.6	C6W—C5W—H5WA	109.3
C14A—C15C—H15F	110.6	C4W—C5W—H5WB	109.3
C16C—C15C—H15F	110.6	C6W—C5W—H5WB	109.3
H15E—C15C—H15F	108.7	H5WA—C5W—H5WB	107.9
C15C—C16C—H16G	109.5	C5W—C6W—C1W	107.6 (10)
С15С—С16С—Н16Н	109.5	C5W—C6W—H6WA	110.2
H16G—C16C—H16H	109.5	C1W—C6W—H6WA	110.2
C15C—C16C—H16I	109.5	C5W—C6W—H6WB	110.2
H16G—C16C—H16I	109.5	C1W—C6W—H6WB	110.2
H16H—C16C—H16I	109.5	H6WA—C6W—H6WB	108.5
C7B—N1B—C8B	127.2 (3)	C2W'—C1W'—C6W'	110.9 (18)
C7B—N1B—H1BA	116.4	C2W'—C1W'—H1WC	109.5
C8B—N1B—H1BA	116.4	C6W'—C1W'—H1WC	109.5
C14B—N2B—C3B	123.7 (3)	C2W'—C1W'—H1WD	109.5
C14B—N2B—H2BA	118.1	C6W'—C1W'—H1WD	109.5
C3B—N2B—H2BA	118.1	H1WC—C1W'—H1WD	108.1
C4B—O3B—C17B	117.9 (3)	C1W'—C2W'—C3W'	113.8 (17)
C6B—C1B—C2B	119.1 (3)	C1W'—C2W'—H2WC	108.8
C6B—C1B—C7B	117.5 (3)	C3W'—C2W'—H2WC	108.8
C2B—C1B—C7B	123.1 (3)	C1W'—C2W'—H2WD	108.8
C3B—C2B—C1B	119.3 (3)	C3W'—C2W'—H2WD	108.8
C3B—C2B—H2BB	120.4	H2WC—C2W'—H2WD	107.7
C1B—C2B—H2BB	120.4	C2W'—C3W'—C4W'	109.6 (13)
C2B—C3B—C4B	121.8 (3)	C2W'—C3W'—H3WC	109.8
C2B—C3B—N2B	120.7 (3)	C4W'—C3W'—H3WC	109.8
C4B—C3B—N2B	117.5 (3)	C2W'—C3W'—H3WD	109.8
O3B—C4B—C3B	116.7 (3)	C4W'—C3W'—H3WD	109.8
O3B—C4B—C5B	124.3 (3)	H3WC—C3W′—H3WD	108.2
C3B—C4B—C5B	119.0 (3)	C5W'—C4W'—C3W'	106.2 (14)
C4B—C5B—C6B	118.0 (3)	C5W'—C4W'—H4WC	110.5
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C4B—C5B—H5BA	121.0	C3W'—C4W'—H4WC	110.5
C6B—C5B—H5BA	121.0	C5W'—C4W'—H4WD	110.5
C1B—C6B—C5B	122.8 (3)	C3W'—C4W'—H4WD	110.5
C1B—C6B—H6BA	118.6	H4WC—C4W'—H4WD	108.7
С5В—С6В—Н6ВА	118.6	C6W'—C5W'—C4W'	107.0 (12)
O1B—C7B—N1B	121.7 (3)	C6W'—C5W'—H5WC	110.3
O1B—C7B—C1B	119.7 (3)	C4W'—C5W'—H5WC	110.3
N1B—C7B—C1B	118.6 (3)	C6W'—C5W'—H5WD	110.3
C13B—C8B—C9B	119.4 (3)	C4W'—C5W'—H5WD	110.3
C13B—C8B—N1B	118.2 (3)	H5WC—C5W'—H5WD	108.6
C9B—C8B—N1B	122.3 (3)	C5W'—C6W'—C1W'	117.1 (14)
C10B—C9B—C8B	120.0 (4)	C5W'—C6W'—H6WC	108.0
C10B—C9B—H9BA	120.0	C1W'—C6W'—H6WC	108.0
C8B—C9B—H9BA	120.0	C5W'—C6W'—H6WD	108.0
C11B—C10B—C9B	119.7 (4)	C1W'—C6W'—H6WD	108.0
C11B—C10B—H10A	120.2	H6WC—C6W'—H6WD	107.3

Hydrogen-bond geometry (Å, °)

D—H···A	D—H	H···A	D····A	D—H···A
N2 <i>A</i> —H2 <i>AA</i> ···O1 <i>B</i>	0.86	2.25	3.082 (4)	164
N2B—H2BA…O1A	0.86	2.26	3.091 (5)	163
$N1A$ — $H1AA$ ···O2 B^{i}	0.86	2.28	3.040 (4)	147
N1B—H1BA····O2A ⁱⁱ	0.86	2.33	3.077 (4)	145

Symmetry codes: (i) *x*, -*y*+1, *z*-1/2; (ii) *x*, -*y*+1, *z*+1/2.