

## **Electronic Supplementary Information (ESI)**

### **Cetirizine derived supramolecular topical gel in action: rational design, characterization and *in vivo* self-delivery application in treating skin allergy in mice**

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#### **Table of Content**

<sup>1</sup> H-NMR and <sup>13</sup> C-NMR spectra of salts <b>1-6</b> .....	2-7
FT-IR spectra of cetirizine and its salts <b>1-6</b> and gelation data.....	8
T <sub>gel</sub> vs gelator concentration and strain sweep rheological plot.....	9
Crystallographic and hydrogen bonding parameters table for salt <b>5</b> and <b>6</b> .....	10-12
FT-IR spectra of salt <b>3</b> .....	13
UV-Visible spectra of cetirizine and its salt <b>3</b> .....	14
Check CIF/ PLATON Report of salt <b>5</b> and <b>6</b> .....	15-21

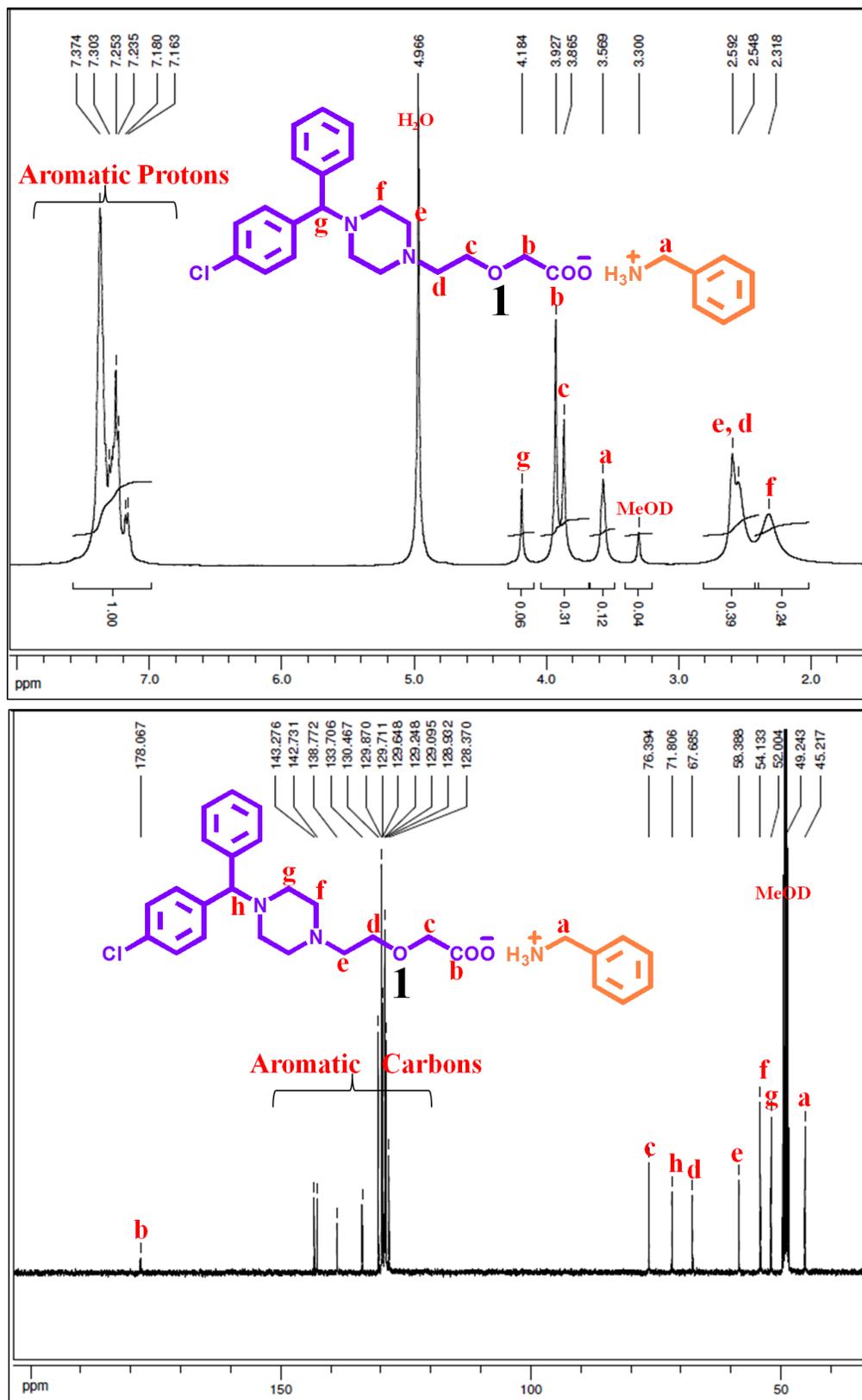


Figure S1:  $^1\text{H-NMR}$  and  $^{13}\text{C-NMR}$  spectra of **1** in MeOD.

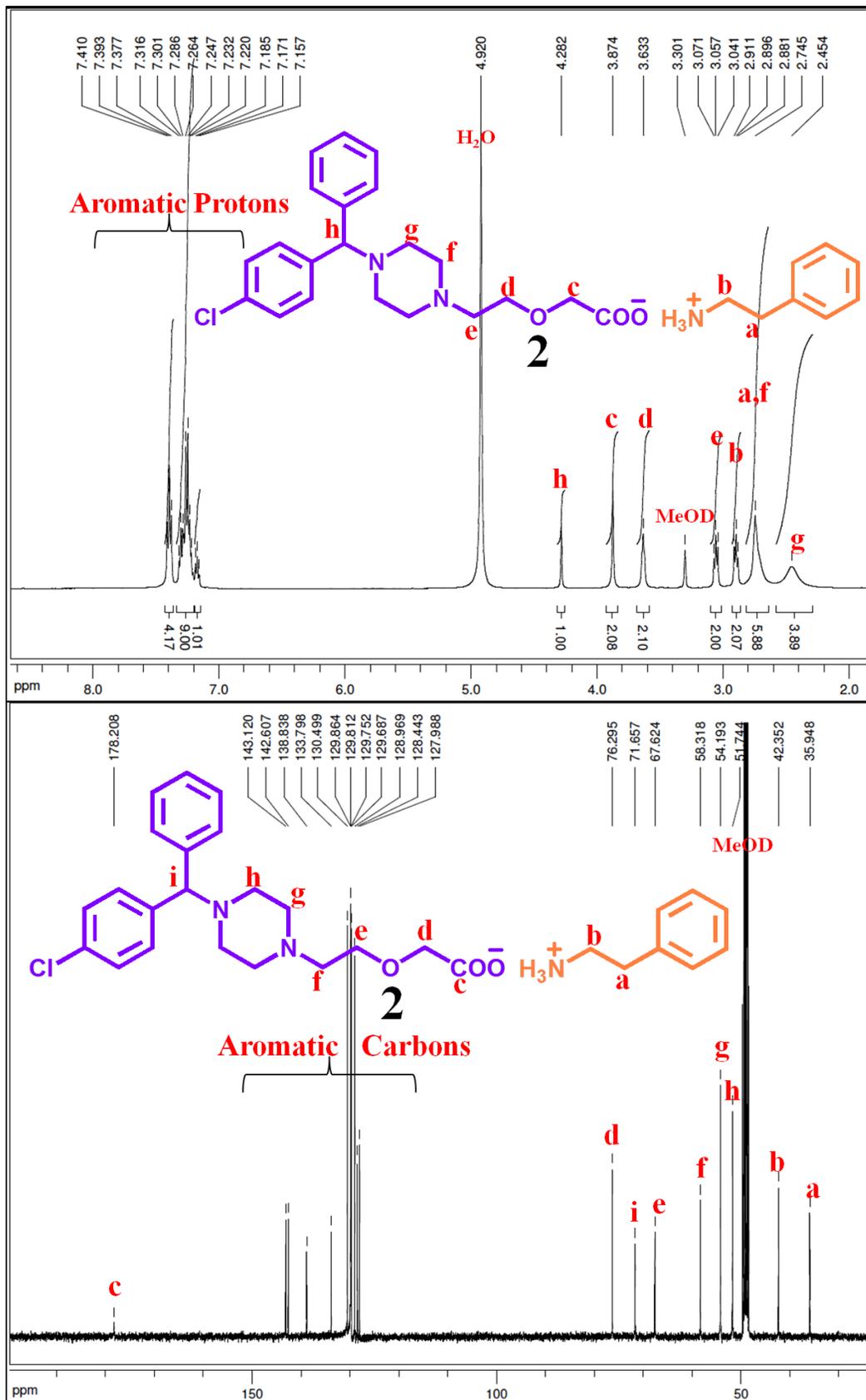
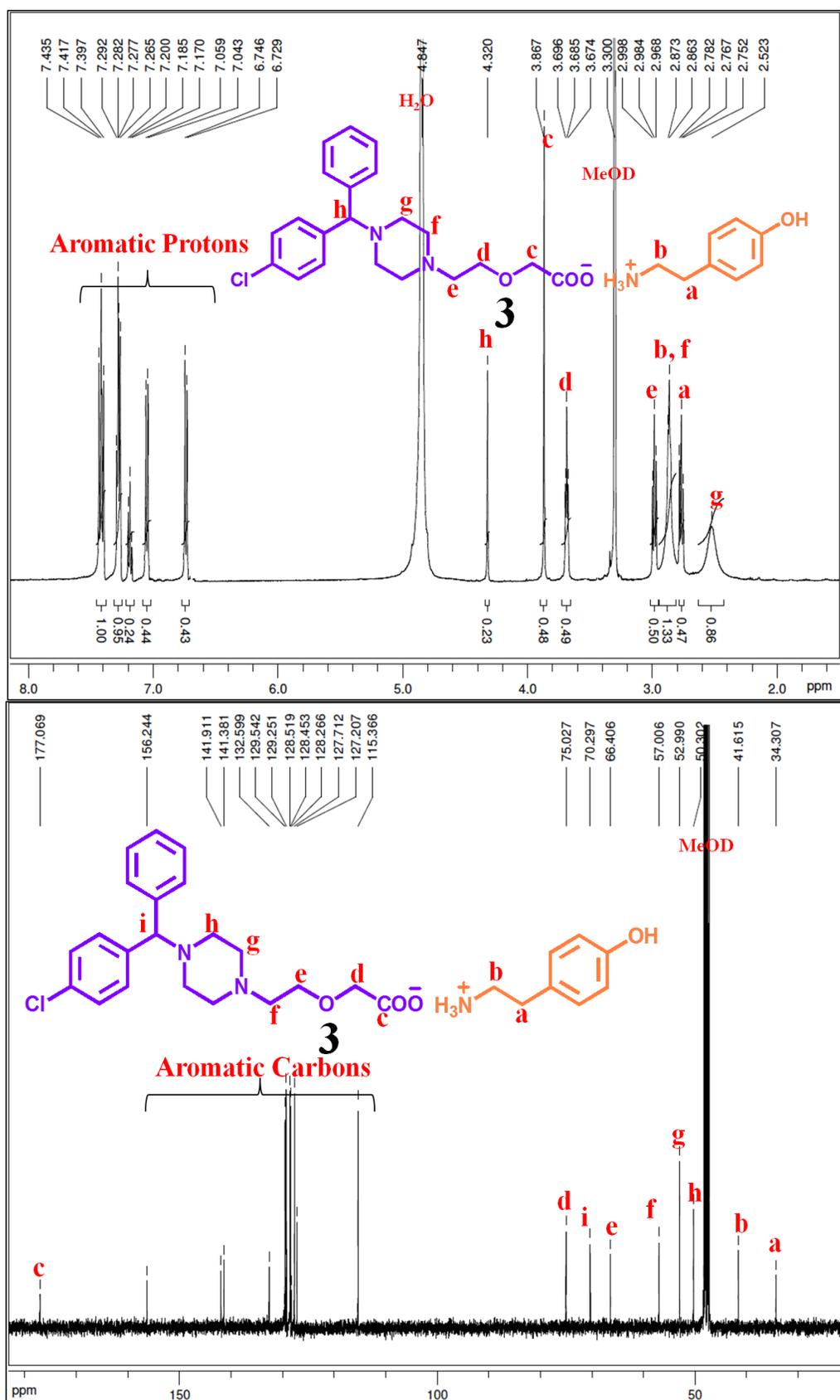


Figure S2:  $^1\text{H}$ -NMR and  $^{13}\text{C}$ -NMR spectra of **2** in MeOD.



**Figure S3:** <sup>1</sup>H-NMR and <sup>13</sup>C-NMR spectra of **3** in MeOD.

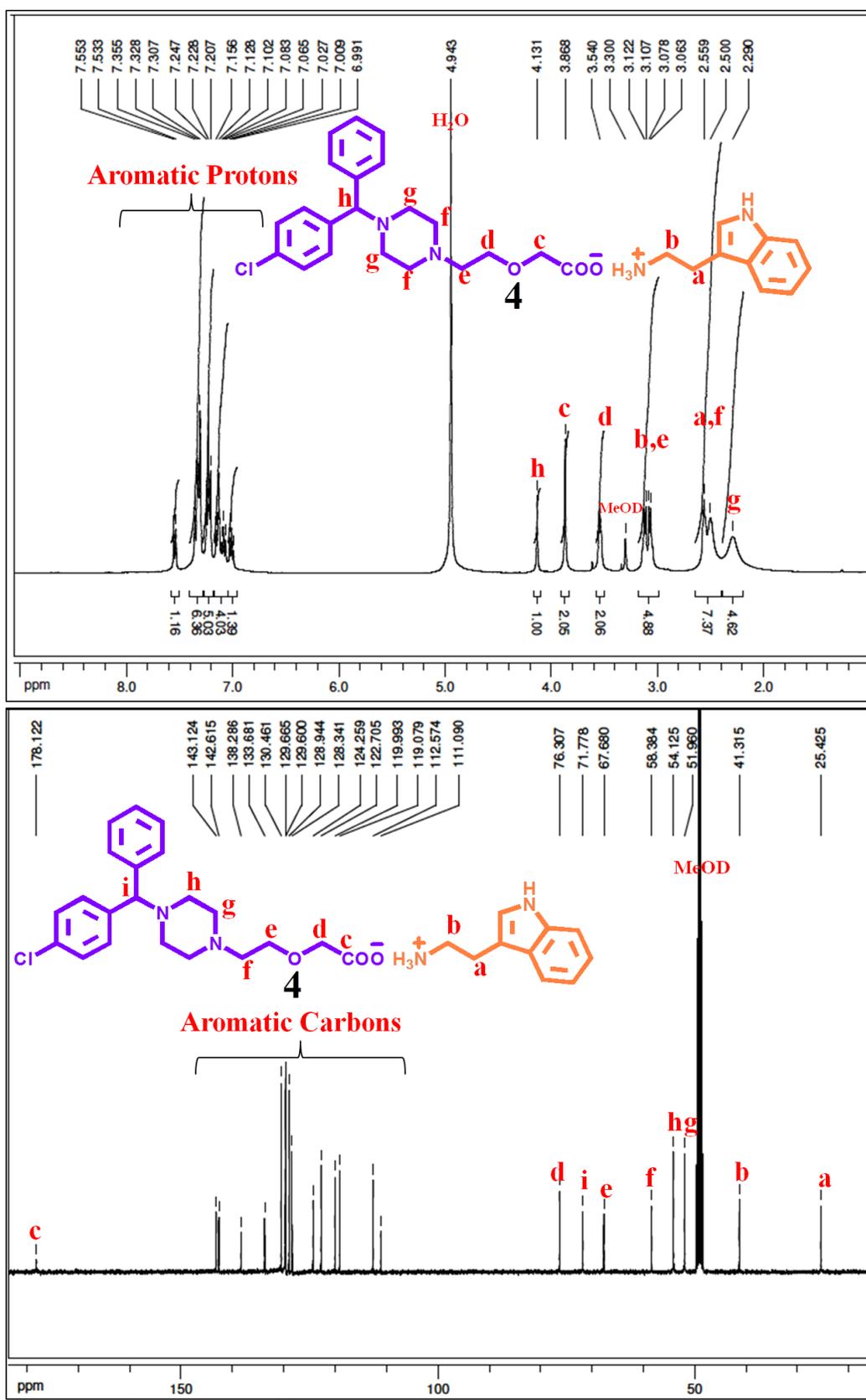


Figure S4: <sup>1</sup>H-NMR and <sup>13</sup>C-NMR spectra of **4** in MeOD.

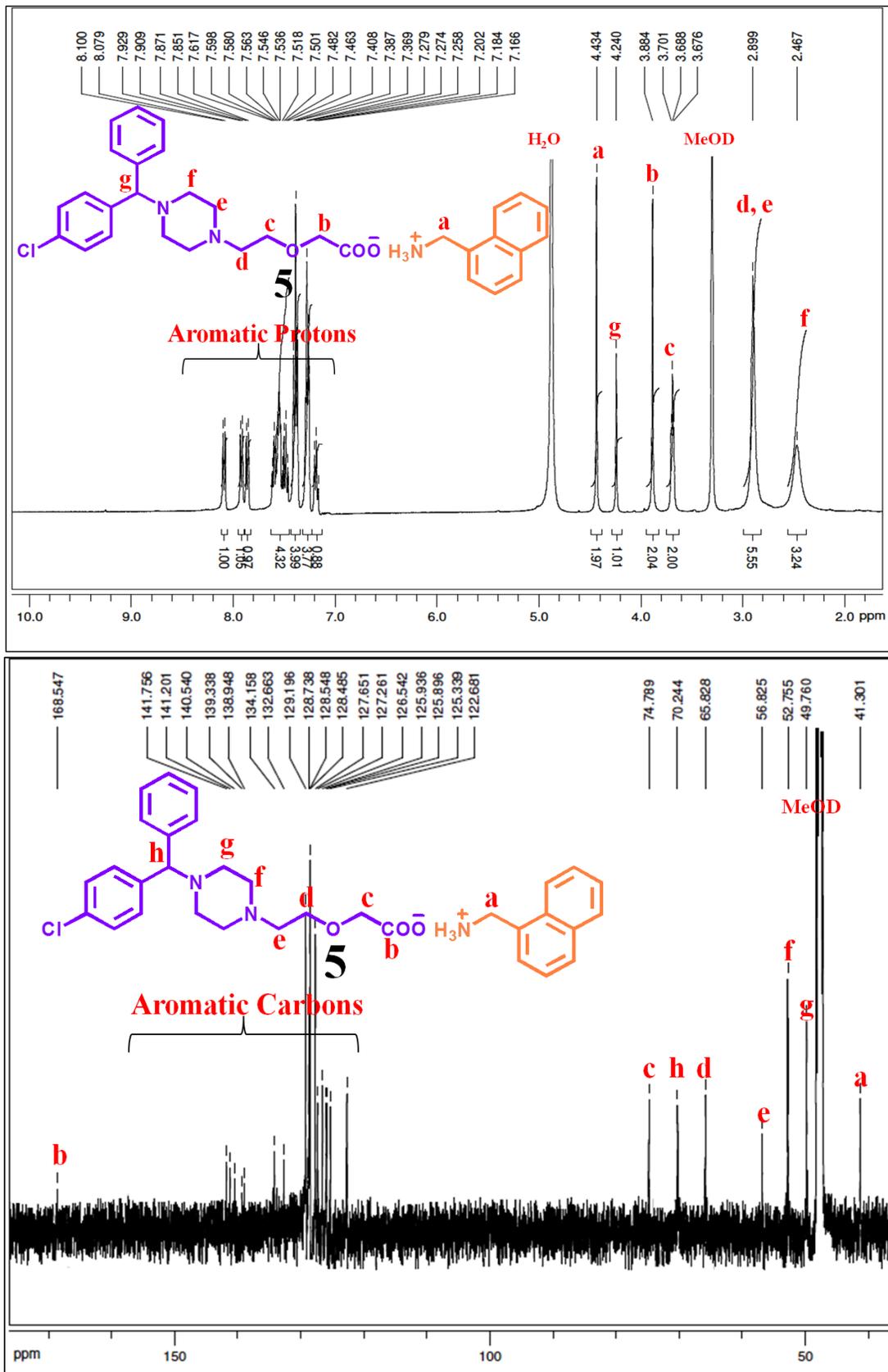
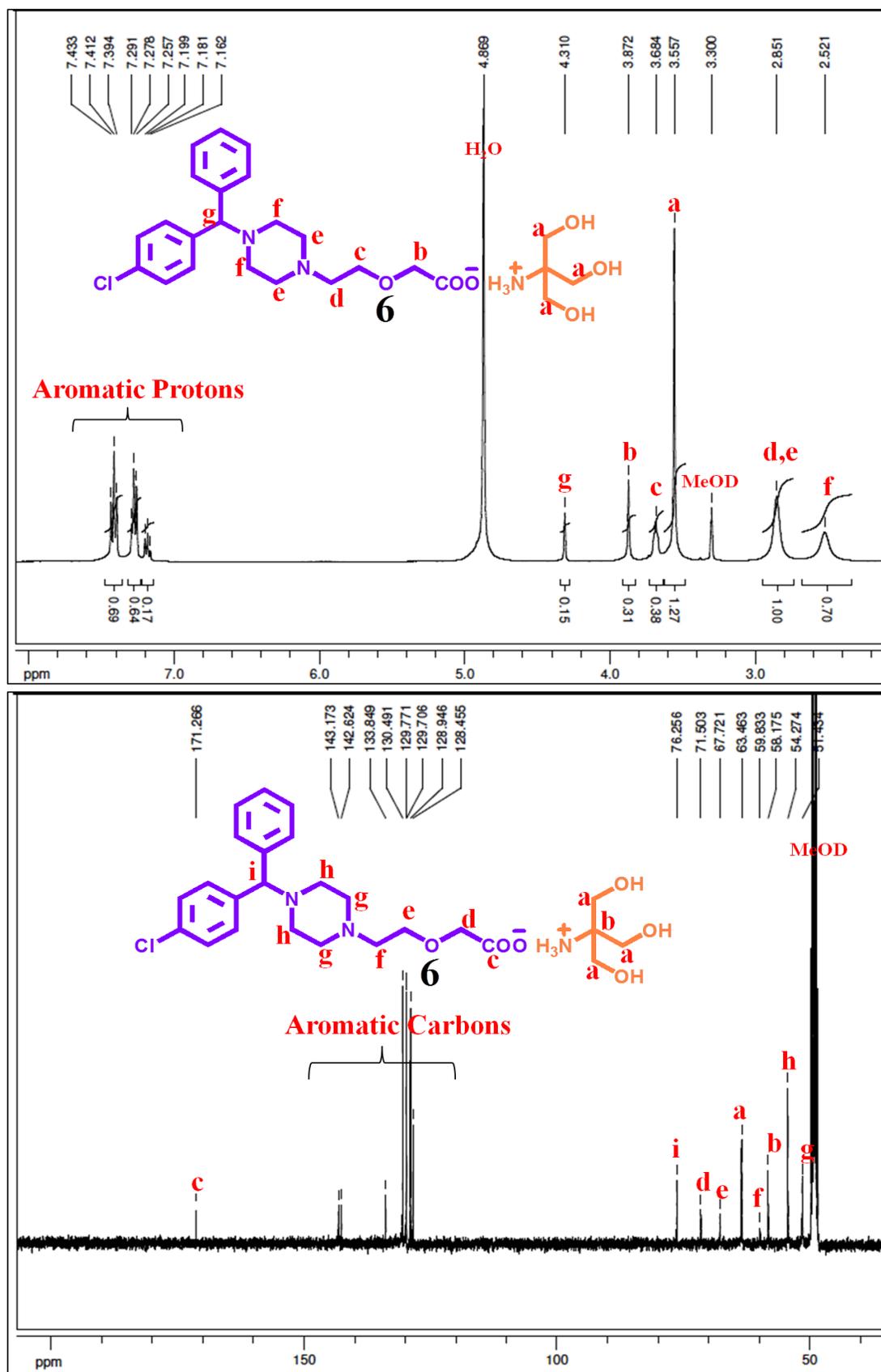
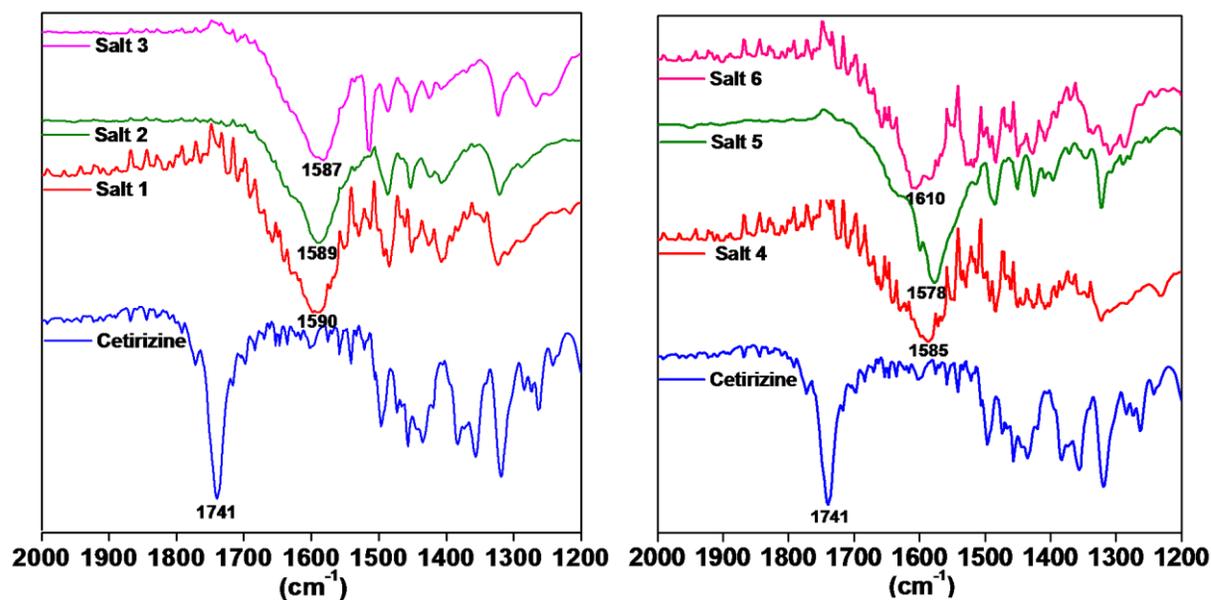


Figure S5: <sup>1</sup>H-NMR and <sup>13</sup>C-NMR spectra of **5** in MeOD.



**Figure S6:** <sup>1</sup>H-NMR and <sup>13</sup>C-NMR spectra of **6** in MeOD.



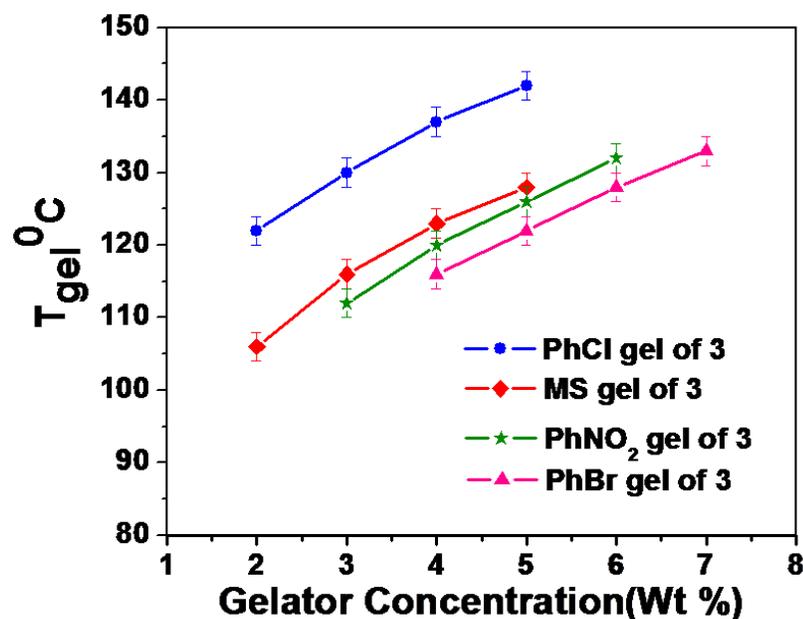
**Figure S7:** FT-IR spectra of cetirizine and its salts **1-6**.

**Table S1:** Gelation data of the salts **1-6**<sup>a</sup>.

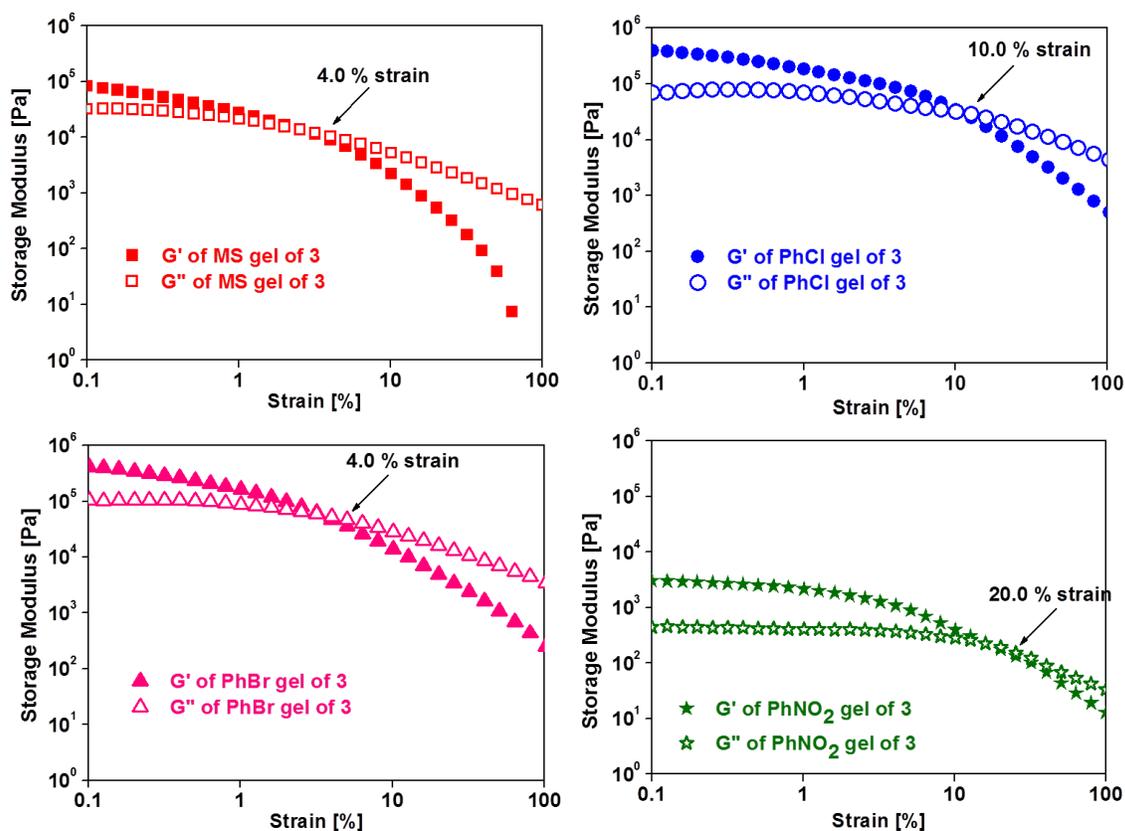
<b>Solvents</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Water	CS	CS	S	CS	CS	S
Ethylglycol	S	S	S	S	S	S
Acetonitrile	S	S	S	S	P	S
Methylsalicylate	S	S	<b>Gel/2.0</b>	S	S	S
Cholorobenzene	S	S	<b>Gel/2.0</b>	S	S	S
Bromobenzene	S	S	<b>Gel/4.0</b>	S	S	S
Toluene	S	S	CS	S	S	S
o-Xylene	S	S	P	S	S	S
Mesitylene	S	S	CS	S	P	S
Nitrobenzene	S	S	<b>Gel/3.0</b>	S	S	S
DMF	S	S	S	S	S	S
DMSO	S	S	S	S	S	S
Sunflower Oil	I	I	P	I	I	I
Soyabin Oil	I	I	P	I	I	I

<sup>a</sup>The numerical values indicate the minimum gelator concentration (MGC) in wt % (w/v),

CS=Colliodal Solution , S= Soluble , P=PPT and I= Insoluble.



**Figure S8:**  $T_{gel}$  vs gelator concentration plot for the methylsalicylate (MS), chlorobenzene (PhCl), bromobenzene (PhBr) and nitrobenzene (PhNO<sub>2</sub>) gels of **3**.



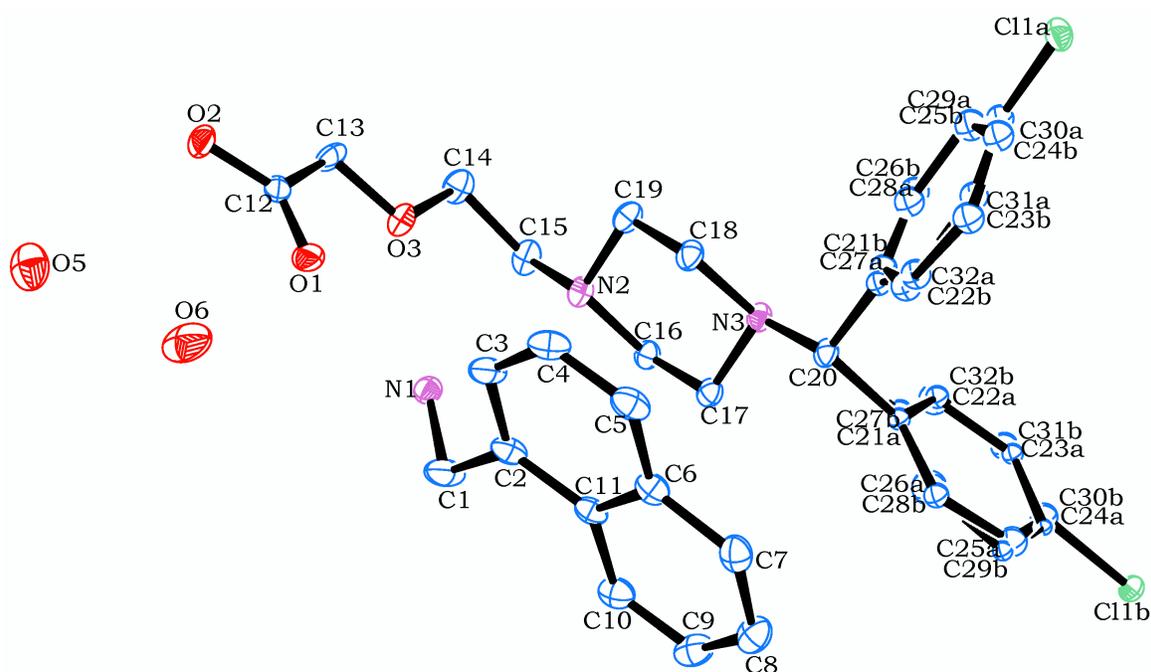
**Figure S9:** Strain sweep rheological behavior of 4 wt % methylsalicylate (MS), chlorobenzene (PhCl), bromobenzene (PhBr) and nitrobenzene (PhNO<sub>2</sub>) gels of **3**.

**Table S2:** Crystallographic parameters for salt **5** and **6**.

Crystal parameters	Salt <b>5</b>	Salt <b>6</b>
CCDC No.	1053907	1053908
emp. formula	C <sub>32</sub> H <sub>37</sub> N <sub>3</sub> O <sub>5</sub> Cl	C <sub>50</sub> H <sub>82</sub> N <sub>6</sub> O <sub>17</sub> Cl <sub>2</sub>
formula weight	579.09	1110.11
temp. (K)	173(2)	100(2)
$\lambda$ (Å)	0.71073	0.71073
crystal system	monoclinic	triclinic
space group	<i>I</i> 2/a	<i>P</i> -1
<i>a</i> (Å)	15.4537(14)	10.900(11)
<i>b</i> (Å)	9.1572(8)	11.786(12)
<i>c</i> (Å)	43.467(4)	24.640(3)
$\alpha$ (°)	90	102.078(12)
$\beta$ (°)	92.602(4)	90.025(13)
$\lambda$ (°)	90	113.655(12)
<i>V</i> (Å <sup>3</sup> )	6144.8(10)	2823(5)
<i>Z</i>	8	2
$\rho_{\text{calc.}}$ (gcm <sup>-3</sup> )	1.252	1.306
$\mu$ (mm <sup>-1</sup> )	0.168	0.188
<i>F</i> <sub>000</sub>	2456	1188
crystal size (mm)	0.20x0.15x0.14	0.15x0.10x0.05
$\theta_{\text{range}}$ (°)	0.93 – 28.39	1.698 – 26.498
milller index ranges	-19 ≤ <i>h</i> ≤ 20 -11 ≤ <i>k</i> ≤ 12 -57 ≤ <i>l</i> ≤ 56	-13 ≤ <i>h</i> ≤ 13 -14 ≤ <i>k</i> ≤ 14 -29 ≤ <i>l</i> ≤ 30
reflections collected	41706	36556
independent reflections	7443	11364
<i>R</i> <sub>int</sub>	0.0940	0.1190
completeness to $\theta_{\text{max}}$ (%)	99.90	98.2
data / restraints / parameters	7443 / 24 / 373	11364 / 1534 / 740
goodness-of-fit on <i>F</i> <sup>2</sup>	1.040	0.935
final <i>R</i> indices [ <i>I</i> > 2σ( <i>I</i> )]	<i>R</i> <sub>1</sub> = 0.0937 <i>wR</i> <sub>2</sub> = 0.02513	<i>R</i> <sub>1</sub> = 0.750 <i>wR</i> <sub>2</sub> = 0.1615
<i>R</i> indices (all data)	<i>R</i> <sub>1</sub> = 0.1662 <i>wR</i> <sub>2</sub> = 0.2803	<i>R</i> <sub>1</sub> = 0.1923 <i>wR</i> <sub>2</sub> = 0.1937
largest diff. peak and hole (e Å <sup>-3</sup> )	0.691 and -0.388	1.379 and -0.474

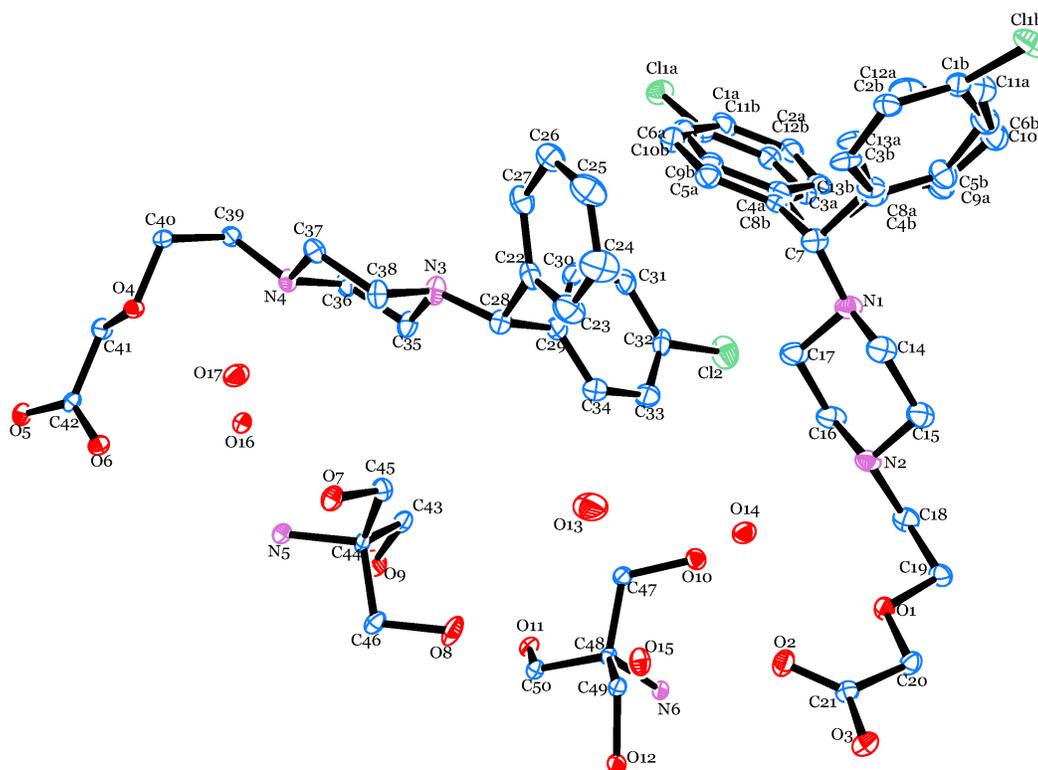
**Table S3:** Hydrogen bond parameters for salt **5** [Å and °].

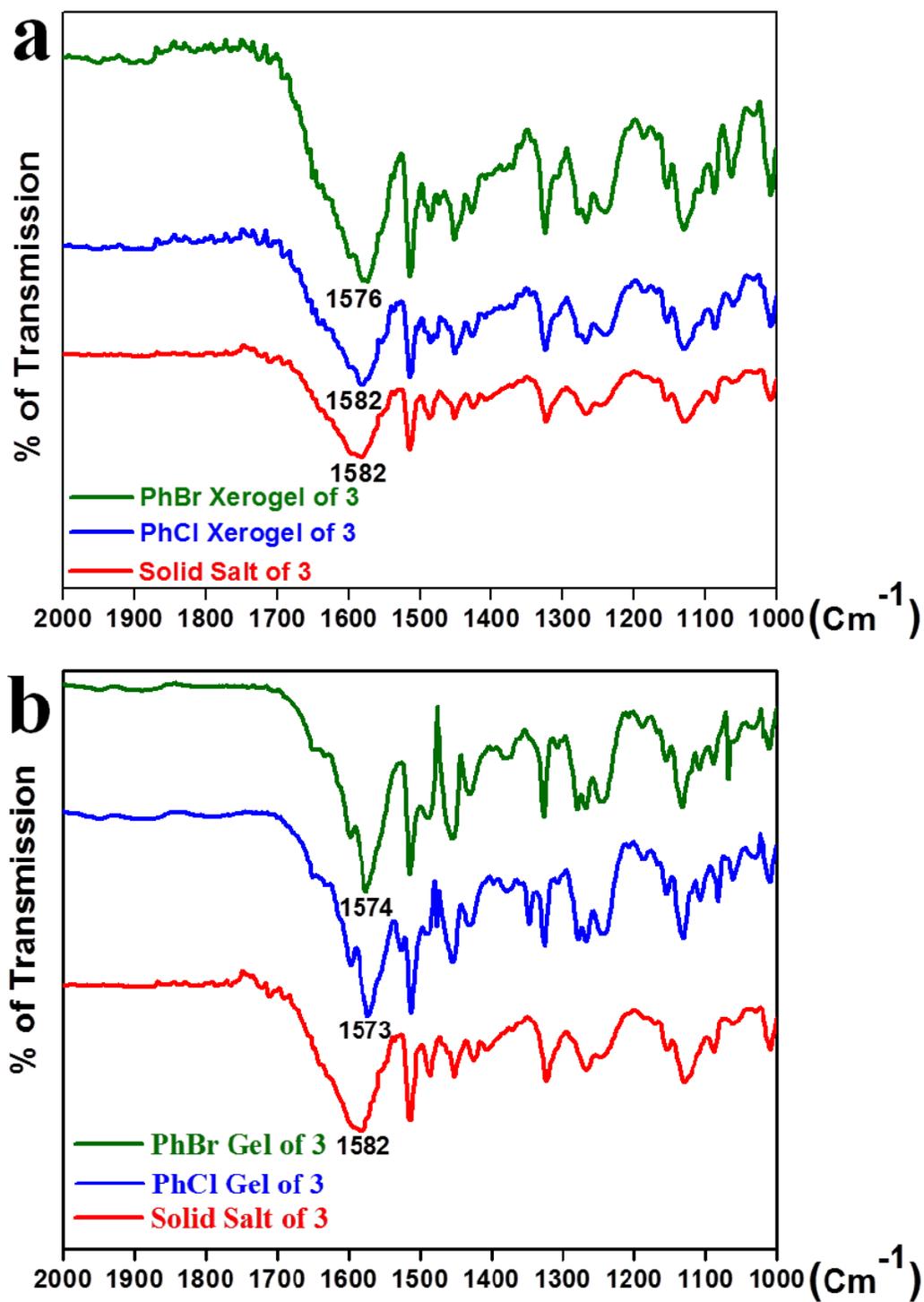
D–H···A	d(H···A)	d(D···A)	<(DHA)	Symmetry transformations
N(1)–H(1A)···N(2)	2.1	2.982(5)	162.1	x,y,z
N(1)–H(1B)···O(1)	1.85	2.745(4)	166.8	x,y,z
N(1)–H(1C)···O(2)	1.96	2.811(4)	156	-x+1/2,y,-z
O(5)–H(5A)···O(2)	1.83	2.696(5)	173.3	-x,-y+1,-z
O(5)–H(5B)···O(6)	1.95	2.789(5)	160.3	x,y,z

**Figure S10:** ORTEP representation of crystal structure of salt **5** (Thermal ellipsoids are drawn with 50% probability level).

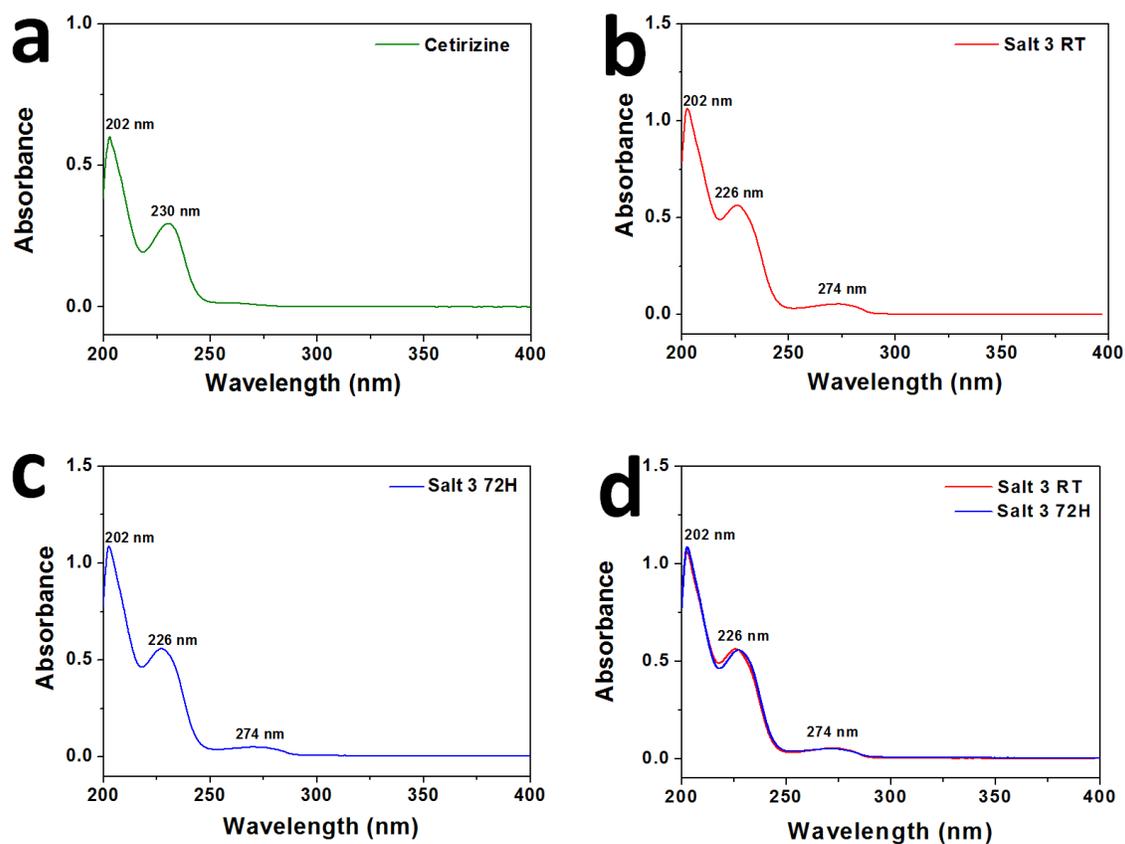
**Table S4:** Hydrogen bond parameters for salt **6** [ $\text{\AA}$  and  $^\circ$ ].

D-H...A	d(H...A)	d(D...A)	$\angle(\text{DHA})$	Symmetry transformations
N(5)-H(5E)...O(5)	1.97	2.776(4)	146.4	$-x+2,-y+1,-z$
N(5)-H(5C)...O(11)	1.9	2.781(5)	163.4	$-x+1,-y,-z$
N(5)-H(5D)...O(16)	1.94	2.817(5)	161.7	$x,y,z$
O(7)-H(7)...O(5)	1.82	2.658(4)	175.2	$x-1,y,z$
O(8)-H(8)...O(12)	1.91	2.715(4)	161.6	$-x,-y,-z$
O(9)-H(9)...O(3)	1.88	2.703(4)	165.4	$x+1,y,z$
N(6)-H(6C)...O(6)	1.96	2.853(5)	167.2	$-x+1,-y,-z$
O(10)-H(10)...O(14)	1.91	2.741(4)	173.5	$x,y,z$
O(11)-H(11)...O(3)	1.83	2.672(4)	175.4	$x+1,y,z$
O(12)-H(12)...O(15)	1.89	2.702(4)	162.8	$-x,-y,-z$
O(17)-H(17C)...O(7)	1.97	2.784(4)	155.3	$x,y,z$
O(16)-H(16C)...N(4)	2.01	2.883(5)	179.2	$x,y,z$
O(16)-H(16D)...O(6)	1.91	2.775(4)	174.5	$x,y,z$
O(14)-H(14C)...O(2)	1.9	2.766(4)	175.8	$x,y,z$
O(15)-H(15D)...O(2)	1.88	2.728(4)	163.7	$x,y,z$
O(15)-H(15C)...O(16)	1.99	2.856(5)	177.2	$x-1,y,z$

**Figure S11:** ORTEP representation of crystal structure of salt **6** (Thermal ellipsoids are drawn with 50% probability level).



**Figure S12:** FT-IR spectra of salt **3** in its chlorobenzene (PhCl) and bromobenzene (PhBr) xerogel (a) and gel (b) state.



**Figure S13:** UV-Visible absorbance spectra of cetirizine and its salt **3**; a) UV- Visible spectrum of cetirizine in PBS; b) UV- Visible spectrum of gelator salt **3** in PBS at room temperature (RT); c) UV- Visible spectra of gelator salt **3** after 72 h incubation with PBS and d) UV- Visible spectra of gelator salt **3** at RT and after 72 h incubation with PBS.

**Check CIF/ PLATON Report of salt 5****checkCIF/PLATON report**

You have not supplied any structure factors. As a result the full set of tests cannot be run.

THIS REPORT IS FOR GUIDANCE ONLY. IF USED AS PART OF A REVIEW PROCEDURE FOR PUBLICATION, IT SHOULD NOT REPLACE THE EXPERTISE OF AN EXPERIENCED CRYSTALLOGRAPHIC REFEREE.

No syntax errors found.      CIF dictionary      Interpreting this report

**Datablock: JM205\_0m**

Bond precision:	C-C = 0.0064 A	Wavelength=0.71073	
Cell:	a=15.4537(14)	b=9.1572(8)	c=43.467(4)
	alpha=90	beta=92.602(4)	gamma=90
Temperature:	173 K		
	Calculated	Reported	
Volume	6144.8(10)	6144.8(10)	
Space group	I 2/a	I 2/a	
Hall group	-I 2ya	-I 2ya	
Moiety formula	C21 H23 Cl N2 O3, C11 H12	C21 H23 Cl N2 O3, C11 H12	
	N, H2 O, O	N, H2 O, O	
Sum formula	C32 H37 Cl N3 O5	C32 H37 Cl N3 O5	
Mr	579.10	579.09	
Dx, g cm-3	1.252	1.252	
Z	8	8	
Mu (mm-1)	0.168	0.168	
F000	2456.0	2456.0	
F000'	2458.23		
h,k,lmax	20,12,58	20,12,57	
Nref	7702	7443	
Tmin,Tmax	0.970,0.977	0.625,0.746	
Tmin'	0.967		

Correction method= # Reported T Limits: Tmin=0.625 Tmax=0.746  
AbsCorr = MULTI-SCAN

Data completeness= 0.966      Theta(max)= 28.391

R(reflections)= 0.0937( 4167)      wR2(reflections)= 0.2803( 7443)

S = 1.040      Npar= 373

The following ALERTS were generated. Each ALERT has the format

**test-name\_ALERT\_alert-type\_alert-level.**

Click on the hyperlinks for more details of the test.

### Alert level A

PLAT201\_ALERT\_2\_A Isotropic non-H Atoms in Main Residue(s) ..... 12 Report

**Author Response: These are disordered C atoms with partial occupancy for which an anisotropic refinement was not permissible. The reflections-to-parameters ratio is also quite low already and should not be impaired by adding further thermal parameters.**

### Alert level B

PLAT306\_ALERT\_2\_B Isolated Oxygen Atom (H-atoms Missing ?) ..... 06 Check

**Author Response: H atoms of water molecule O6 were not located since there was no enough electron density at reasonable distances to be assigned as H atoms.**

PLAT430\_ALERT\_2\_B Short Inter D...A Contact O1 .. O6 .. 2.83 Ang.

**Author Response: Since H atoms for the water molecules could not be located form the Fourier difference map, it assumes a short contact due to missing H-atoms.**

PLAT430\_ALERT\_2\_B Short Inter D...A Contact O6 .. O6 .. 2.77 Ang.

### Alert level C

RFACR01\_ALERT\_3\_C The value of the weighted R factor is > 0.25

Weighted R factor given 0.280

PLAT084\_ALERT\_3\_C High wR2 Value (i.e. > 0.25) ..... 0.28 Report

PLAT220\_ALERT\_2\_C Large Non-Solvent C Ueq(max)/Ueq(min) Range 4.8 Ratio

PLAT222\_ALERT\_3\_C Large Non-Solvent H Uiso(max)/Uiso(min) ... 4.4 Ratio

PLAT241\_ALERT\_2\_C High Ueq as Compared to Neighbors for ..... C1 Check

PLAT340\_ALERT\_3\_C Low Bond Precision on C-C Bonds ..... 0.0064 Ang.

PLAT410\_ALERT\_2\_C Short Intra H...H Contact H1D .. H10 .. 1.95 Ang.

### Alert level G

PLAT002\_ALERT\_2\_G Number of Distance or Angle Restraints on AtSite 24 Note

PLAT007\_ALERT\_5\_G Number of Unrefined Donor-H Atoms ..... 5 Report

PLAT072\_ALERT\_2\_G SHELXL First Parameter in WGHT Unusually Large. 0.13 Report

PLAT083\_ALERT\_2\_G SHELXL Second Parameter in WGHT Unusually Large. 17.20 Why ?

PLAT172\_ALERT\_4\_G The CIF-Embedded .res File Contains DFIX Records 24 Report

PLAT300\_ALERT\_4\_G Atom Site Occupancy of >C11B is Constrained at 0.654 Check

PLAT300\_ALERT\_4\_G Atom Site Occupancy of <C11A is Constrained at 0.346 Check

PLAT300\_ALERT\_4\_G Atom Site Occupancy of >C21B is Constrained at 0.654 Check

PLAT300\_ALERT\_4\_G Atom Site Occupancy of >C22B is Constrained at 0.654 Check

PLAT300\_ALERT\_4\_G Atom Site Occupancy of >C23B is Constrained at 0.654 Check

PLAT300\_ALERT\_4\_G Atom Site Occupancy of >C24B is Constrained at 0.654 Check

PLAT300\_ALERT\_4\_G Atom Site Occupancy of >C25B is Constrained at 0.654 Check

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PLAT300_ALERT_4_G Atom Site Occupancy of >C26B is Constrained at 0.654 Check
PLAT300_ALERT_4_G Atom Site Occupancy of >C27B is Constrained at 0.654 Check
PLAT300_ALERT_4_G Atom Site Occupancy of >C28B is Constrained at 0.654 Check
PLAT300_ALERT_4_G Atom Site Occupancy of >C29B is Constrained at 0.654 Check
PLAT300_ALERT_4_G Atom Site Occupancy of >C30B is Constrained at 0.654 Check
PLAT300_ALERT_4_G Atom Site Occupancy of >C31B is Constrained at 0.654 Check
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PLAT300_ALERT_4_G Atom Site Occupancy of <C30A is Constrained at 0.346 Check
PLAT300_ALERT_4_G Atom Site Occupancy of <C31A is Constrained at 0.346 Check
PLAT300_ALERT_4_G Atom Site Occupancy of <C32A is Constrained at 0.346 Check
PLAT301_ALERT_3_G Main Residue Disorder ..... Percentage = 33 Note
PLAT432_ALERT_2_G Short Inter X...Y Contact C11A .. C8 .. 3.22 Ang.
PLAT811_ALERT_5_G No ADDSYM Analysis: Too Many Excluded Atoms .... ! Info
PLAT860_ALERT_3_G Number of Least-Squares Restraints ..... 24 Note

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1 ALERT level A = Most likely a serious problem - resolve or explain
3 ALERT level B = A potentially serious problem, consider carefully
7 ALERT level C = Check. Ensure it is not caused by an omission or oversight
35 ALERT level G = General information/check it is not something unexpected

0 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
11 ALERT type 2 Indicator that the structure model may be wrong or deficient
6 ALERT type 3 Indicator that the structure quality may be low
27 ALERT type 4 Improvement, methodology, query or suggestion
2 ALERT type 5 Informative message, check

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It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special\_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

### Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

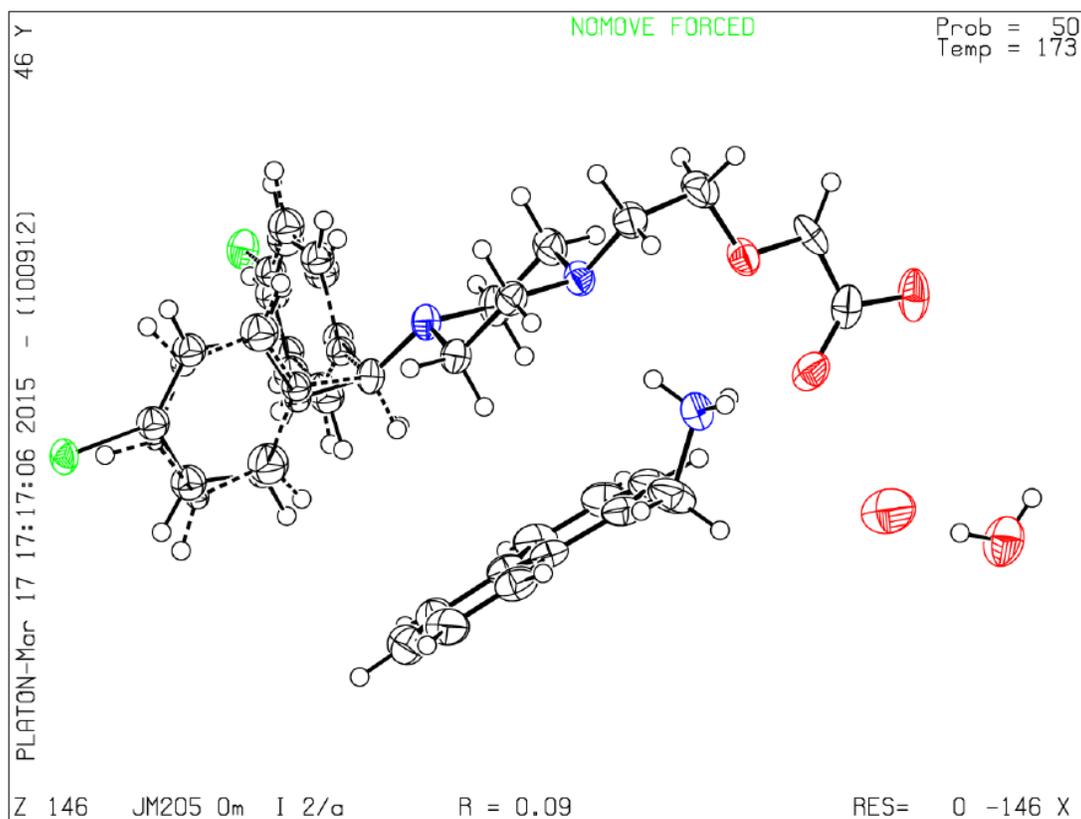
### Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

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PLATON version of 29/01/2015; check.def file version of 29/01/2015

Datablock JM205\_0m - ellipsoid plot





The following ALERTS were generated. Each ALERT has the format  
**test-name\_ALERT\_alert-type\_alert-level.**  
 Click on the hyperlinks for more details of the test.

**Alert level B**

PLAT417\_ALERT\_2\_B Short Inter D-H...H-D            H15C    .. H16C    ..            2.09 Ang.

**Author Response: The H atoms bonded to the O atoms of the solvent water atoms were based on the most likely location for these atoms to be involved in O-H...O hydrogen bonding. The idealized positions for the H atoms is reflected in the close intermolecular distances.**

**Alert level C**

DIFMX01\_ALERT\_2\_C The maximum difference density is > 0.1\*ZMAX\*0.75  
                   \_refine\_diff\_density\_max given =        1.358  
                   Test value =                    1.275

DIFMX02\_ALERT\_1\_C The maximum difference density is > 0.1\*ZMAX\*0.75  
                   The relevant atom site should be identified.

PLAT026\_ALERT\_3\_C Ratio Observed / Unique Reflections too Low ....            45 %  
 PLAT029\_ALERT\_3\_C \_diffrn\_measured\_fraction\_theta\_full Low .....            0.970 Note  
 PLAT094\_ALERT\_2\_C Ratio of Maximum / Minimum Residual Density ....            2.88 Report  
 PLAT097\_ALERT\_2\_C Large Reported Max. (Positive) Residual Density            1.36 eA-3  
 PLAT148\_ALERT\_3\_C su on the            a - Axis is (Too) Large .....            0.011 Ang.  
 PLAT148\_ALERT\_3\_C su on the            b - Axis is (Too) Large .....            0.012 Ang.  
 PLAT148\_ALERT\_3\_C su on the            c - Axis is (Too) Large .....            0.030 Ang.  
 PLAT245\_ALERT\_2\_C U(iso) H13C    Smaller than U(eq) O13        by ...            0.019 AngSq  
 PLAT245\_ALERT\_2\_C U(iso) H13D    Smaller than U(eq) O13        by ...            0.019 AngSq  
 PLAT340\_ALERT\_3\_C Low Bond Precision on C-C Bonds .....            0.0067 Ang.

**Alert level G**

PLAT002\_ALERT\_2\_G Number of Distance or Angle Restraints on AtSite            30 Note  
 PLAT003\_ALERT\_2\_G Number of Uiso or Uij Restrained non-H Atoms ...            88 Report  
 PLAT007\_ALERT\_5\_G Number of Unrefined Donor-H Atoms .....            19 Report  
 PLAT171\_ALERT\_4\_G The CIF-Embedded .res File Contains EADP Records            5 Report  
 PLAT172\_ALERT\_4\_G The CIF-Embedded .res File Contains DFIX Records            30 Report  
 PLAT177\_ALERT\_4\_G The CIF-Embedded .res File Contains DELU Records            1 Report  
 PLAT178\_ALERT\_4\_G The CIF-Embedded .res File Contains SIMU Records            1 Report  
 PLAT301\_ALERT\_3\_G Main Residue Disorder ..... Percentage =            24 Note  
 PLAT793\_ALERT\_4\_G The Model has Chirality at C7 .....            S Verify  
 PLAT793\_ALERT\_4\_G The Model has Chirality at C28 .....            R Verify  
 PLAT860\_ALERT\_3\_G Number of Least-Squares Restraints .....            946 Note

0 **ALERT level A** = Most likely a serious problem - resolve or explain  
 1 **ALERT level B** = A potentially serious problem, consider carefully  
 12 **ALERT level C** = Check. Ensure it is not caused by an omission or oversight  
 11 **ALERT level G** = General information/check it is not something unexpected

1 ALERT type 1 CIF construction/syntax error, inconsistent or missing data  
 8 ALERT type 2 Indicator that the structure model may be wrong or deficient  
 8 ALERT type 3 Indicator that the structure quality may be low  
 6 ALERT type 4 Improvement, methodology, query or suggestion  
 1 ALERT type 5 Informative message, check

It is advisable to attempt to resolve as many as possible of the alerts in all categories. Often the minor alerts point to easily fixed oversights, errors and omissions in your CIF or refinement strategy, so attention to these fine details can be worthwhile. In order to resolve some of the more serious problems it may be necessary to carry out additional measurements or structure refinements. However, the purpose of your study may justify the reported deviations and the more serious of these should normally be commented upon in the discussion or experimental section of a paper or in the "special\_details" fields of the CIF. checkCIF was carefully designed to identify outliers and unusual parameters, but every test has its limitations and alerts that are not important in a particular case may appear. Conversely, the absence of alerts does not guarantee there are no aspects of the results needing attention. It is up to the individual to critically assess their own results and, if necessary, seek expert advice.

### Publication of your CIF in IUCr journals

A basic structural check has been run on your CIF. These basic checks will be run on all CIFs submitted for publication in IUCr journals (*Acta Crystallographica*, *Journal of Applied Crystallography*, *Journal of Synchrotron Radiation*); however, if you intend to submit to *Acta Crystallographica Section C* or *E*, you should make sure that full publication checks are run on the final version of your CIF prior to submission.

### Publication of your CIF in other journals

Please refer to the *Notes for Authors* of the relevant journal for any special instructions relating to CIF submission.

### PLATON version of 20/08/2014; check.def file version of 18/08/2014

Datablock jm0206n\_0m - ellipsoid plot

