Open Chem., 2017; 15: S55–S58 **DE GRUYTER** OPEN

## **Supplementary Information**

გ

**Open Access** 

Muhammad Ikram\*, Sadia Rehman, Fazle Subhan, Muhammad Nadeem Akhtar, Mutasem Omar Sinnokrot

Supplement: Synthesis, characterization, thermal degradation and urease inhibitory studies of the new hydrazide based Schiff base ligand 2-(2-hydroxyphenyl)-3-{[(*E*)-(2-hydroxyphenyl) methylidene]amino}-2,3-dihydroquinazolin-4(1*H*)-one

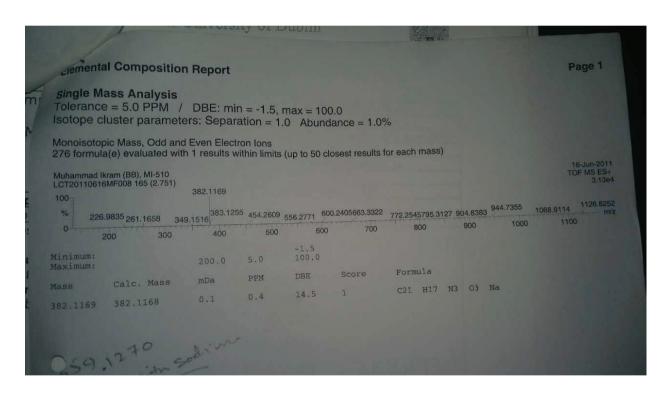


Figure S1: Mass spectrum of H-HHAQ ligand.

Department of Chemistry, Abdul Wali Khan University, Mardan Pakistan, E-mail: ikram@awkum.edu.pk; sadia@awkum.edu.pk

Fazle Subhan: Department of Chemistry, Abdul Wali Khan University,

**Muhammad Nadeem Akhtar:** Department of Chemistry, University of Agriculture, Faisalabad, Pakistan

Mutasem Omar Sinnokrot: Department of Chemistry, The Petroleum Institute, Khalifa University of Science and Technology, Abu Dhabi, 2533 United Arab Emirates

ⓐ Open Access. © 2017 Muhammad Ikram et al., published by De Gruyter Open. [ⓒ DYNC-NO] This work is licensed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 License.

<sup>\*</sup>Corresponding author: Muhammad Ikram, Sadia Rehman:

# 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: shelx**

Bond precision:	C-C = 0.0112 A	Wavelength=0.71073	
Cell:	a=10.2571(9) alpha=90	b=14.4341(12) beta=90	c=23.706(2) gamma=90
Temperature:	295 K		
7	Calculated	Reported	
Volume	3509.7(5)	3509.7(5)	
Space group		C 2 2 21	
Hall group		C 2c 2	
Moiety formula	C21 H17 N3 O3	?	
Sum formula	C21 H17 N3 O3	C21 H17 N3	03
Mr	359.38	359.38	
Dx,g cm-3	1.360	1.360	
Z	8	8	
Mu (mm-1)	0.093	0.093	
F000	1504.0	1504.0	
F000'	1504.67		
h,k,lmax	13,18,30	12,17,29	
Nref	3837[ 2146]	3037	
Tmin, Tmax			
Tmin'			
Correction method= Not given			
Data completeness= 1.42/0.79		Theta(max) = 26.956	
R(reflections) = 0.0820( 1435) wR2		wR2(reflections) = 0.0886( 3037)	
S = 0.998	998 Npar= 255		

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
EXPT005 ALERT 1 A exptl crystal description is missing
                 Crystal habit description.
                 The following tests will not be performed.
                 CRYSR 01
PLAT222 ALERT 3 A Large Non-Solvent H Uiso(max)/Uiso(min) ..
                                                                                                  10.0 Ratio
 🚇 Alert level B
PLAT035_ALERT_1 B No _chemical_absolute_configuration info given . Please Do !
PLAT340 ALERT 3 B Low Bond Precision on C-C Bonds .....
                                                                                                 0.0112 Ang.
 Alert level C
STRVA01 ALERT 4 C
                                     Flack test results are ambiguous.
               From the CIF: _refine_ls_abs_structure_Flack 0.500
                From the CIF: refine ls abs structure Flack su 1.000
PLAT053_ALERT_1_C Minimum Crystal Dimension Missing (or Error) ... Please Check
PLAT054_ALERT_1_C Medium Crystal Dimension Missing (or Error) ... Please Check
PLAT055_ALERT_1_C Maximum Crystal Dimension Missing (or Error) ... Please Check
PLAT055_ALERT_1_C Maximum Crystal Dimension Missing (or Error) ... Please Check
PLAT245_ALERT_2_C U(iso) H19 Smaller than U(eq) N19 by ... 0.031 AngSq
PLAT352_ALERT_3_C Short N-H (X0.87,N1.01A) N19 - H19 ... 0.72 Ang.
PLAT410_ALERT_2_C Short Intra H...H Contact H8 .. H20 ... 1.98 Ang.
PLAT026 ALERT 3 C Ratio Observed / Unique Reflections too Low ....
                                                                                                     47 %
 Alert level G
PLAT002_ALERT_2_G Number of Distance or Angle Restraints on AtSite 4 Note
PLAT007_ALERT_4_G The CIF-Embedded res File Contains Data 1.000 Report
PLAT177_ALERT_4_G The CIF-Embedded res File Contains Data 2.000 Report
PLAT177_ALERT_4_G The CIF-Embedded res File Contains Data 2.000 Report
PLAT177_ALERT_4_G The CIF-Embedded res File Contains Data 2.000 Report
PLAT177_ALERT_4_G The CIF-Embedded res File Contains Data 2.000 Report
                                                                                                       2 Report
PLAT178_ALERT_4_G The CIF-Embedded .res File Contains SIMU Records
                                                                                                 1 Report 26 Note
                                                                                                       1 Report
PLAT301_ALERT_3_G Main Residue Disorder ...... Percentage =
                                                                                                     R Verify
! Info
PLAT791_ALERT_4_G The Model has Chirality at C20 .....
PLAT811_ALERT_5_G No ADDSYM Analysis: Too Many Excluded Atoms ....
PLAT860_ALERT_3_G Number of Least-Squares Restraints ........
                                                                                                     55 Note
    2 ALERT level A = Most likely a serious problem - resolve or explain
     2 ALERT level B = A potentially serious problem, consider carefully
    9 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
     6 ALERT type 1 CIF construction/syntax error, inconsistent or missing data
    4 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
     6 ALERT type 4 Improvement, methodology, query or suggestion
```

2 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 shelx - ellipsoid plot

