Supramolecular Architecture and Crystal Structure of Gold(III) Compounds with Semicarbazones

Supporting Information

Claudia C. Gatto*, Iariane J. Lima, Marcio A.S. Chagas

Laboratory of Inorganic Synthesis and Crystallography, University of Brasilia (IQ-UnB).
Campus Universitário Darcy Ribeiro, CEP 70904970, P.O.Box 4478, Brasília-DF, Brazil.

* Corresponding author. Tel.: +55 61 31073872 ; Fax: +55 61 31073900
E-mail address: ccgatto@gmail.com
SUMMARY:

Figure S1. IR spectra of compound (Hdpksz)Cl (1)-------------------------- III

Figure S2. IR spectra of compound (Hdpkpsz)Cl-2H2O (2)--------------------- IV

Figure S3. IR spectra of compound [HCldpksz][AuCl4] (3)-------------------- V

Figure S4. IR spectra of compound [HCldpksz][AuBr4] (4)-------------------- VI

Figure S5. IR spectra of compound [HCldpcpsz][AuCl4] (5)--------------------- VII

Figure S6. IR spectra of compound [HCldpcpsz][AuBr4] (6)--------------------- VIII

Figure S7. 1H NMR spectra of compound (1) (DMSO, 300 MHz, RT)------------ IX

Figure S8. 1H NMR spectra of compound (2) (DMSO, 300 MHz, RT)------------ X

Figure S9. 1H NMR spectra of compound (3 and 4) (DMSO, 600 and 300 MHz, RT)----------------------------------------------- XI

Figure S10. 1H NMR spectra of compound (5 and 6) (DMSO, 300 MHz, RT)------ XII

Figure S11. 13C NMR spectra of compound (1) (DMSO, 300 MHz, RT)--------- XIII

Figure S12. 13C NMR spectra of compound (2) (DMSO, 300 MHz, RT)--------- XIV

Figure S13. 13C NMR spectra of compound (3 and 4) (DMSO, 600 and 300 MHz, RT)----------------------------------------------- XV

Figure S14. 13C NMR spectra of compound (5 and 6) (DMSO, 300 MHz, RT)------ XVI
**Figure S1.** IR spectra of compound (Hdpksz)Cl (1).
Figure S2. IR spectra of compound (Hdpksz)Cl·2H₂O (2).
Figure S3. IR spectra of compound [HCl$_2$dpksz][AuCl$_4$] (3).
Figure S4. IR spectra of compound [HCldpksz][AuBr₄] (4).
**Figure S5.** IR spectra of compound [HCldpcs][AuCl₄] (5).
Figure S6. IR spectra of compound [HCl-dpcpsz][AuBr₄] (6).
Figure S7. $^1$H NMR spectra of compound (1) (DMSO, 300 MHz, RT).
Figure S8. $^1$H NMR spectra of compound (2) (DMSO, 300 MHz, RT).
Figure S9. $^1$H NMR spectra of compound (3 and 4) (DMSO, 600 and 300 MHz, RT).
Figure S10. $^1$H NMR spectra of compound (5 and 6) (DMSO, 300 MHz, RT).
Figure S11. $^{13}$C NMR spectra of compound (1) (DMSO, 300 MHz, RT).
Figure S12. $^{13}$C NMR spectra of compound (2) (DMSO, 300 MHz, RT).
Figure S13. $^{13}$C NMR spectra of compound (3 and 4) (DMSO, 600 and 300 MHz, RT).
Figure S14. $^{13}$C NMR spectra of compound (5 and 6) (DMSO, 300 MHz, RT).