



Article

# Copper (II) species with improved anti-melanoma and antibacterial activity by inclusion in $\beta$ -cyclodextrin

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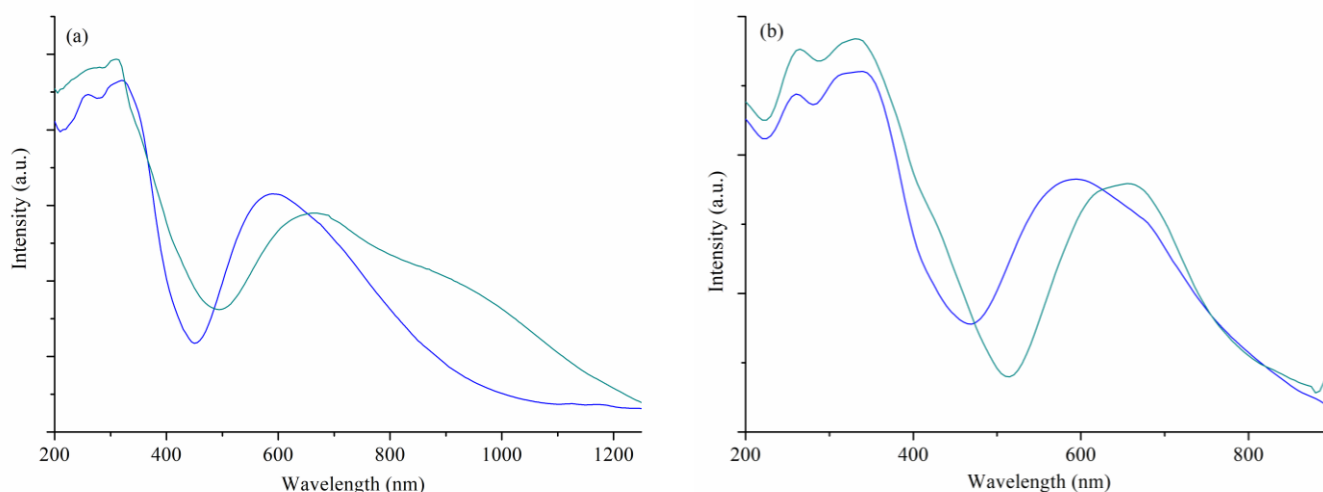
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**Figure S1.** Solid state UV-Vis spectra of complexes (1) (dark blue) and (1a)@ $\beta$ -CD (dark green) (a) and (2) (dark blue) and (2a)@ $\beta$ -CD (dark green) (b) (diffuse reflectance technique with spectralon as reference).

**Table S1.** Absorption maxima (cm<sup>-1</sup>) in IR spectra of  $\beta$ -CD, (1a)@ $\beta$ -CD, and (2a)@ $\beta$ -CD and their assignments.

$\beta$ -CD	(1a)@ $\beta$ -CD	(2a)@ $\beta$ -CD	Assignments
3525 vs, 3480 vs, 3421 vs, 3340 vs, 3266 vs, 3222 vs	3405 m, wide	3386 s, wide	$\nu(\text{OH})$
-	3072 m	3050 m	$\nu(\text{CH})_{\text{aromatic}}$
2927 m	2926 w	2926 m	$\nu(\text{CH})$
1645 m	1629 s	1629 s	$\delta(\text{OH})$
-	1551 s	1552 s	$\nu(\text{C}=\text{N})$
1155 s	1143m	1120 s	$\nu(\text{C}-\text{O}-\text{C})$
1054 s	1080 m	1080 s	$\nu(\text{C}-\text{OH})$
-	1089 vs	1079 vs	$\nu_3(\text{ClO}_4)$
-	781 w, 724 w	778 m, 731 w	$\gamma(\text{CH})_{\text{aromatic}}$
-	624 m	624 m	$\nu_4(\text{ClO}_4)$
-	485 w	485 w	$\nu(\text{Cu}-\text{O})$
-	438 w	430 w	$\nu(\text{Cu}-\text{N})$

vs = very strong, s = strong, m = medium, w -weak.