Supplementary Materials: Copper Ion Attenuated the Antiproliferative Activity of Di-2-Pyridylhydrazone Dithiocarbamate Derivative; However, There Was a Lack of Correlation between ROS Generation and Antiproliferative Activity

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1. Purity of DpdtpA Was Determined by HPLC and NMR

1.1. HPLC (Shimadzu Corporation, Kyoto, Japan) Isolation (Gradient: 20%–50% Solvent B within 10 min, Following Increased to 100% in 10 min, and Decreased to 20% in 2 min and Keep Same Percent to 30 min). Solvent A: Water Plus 0.1% TFA; Solvent B: Acetonitrile Plus 0.1% TFA)

![HPLC of DpdtpA](image)

Figure S1. HPLC of DpdtpA

1.2. $^1$HNMR Spectrum of DpdtpA

![HNMR Spectrum of DpdtpA](image)
2. Purity of DpdtpA-Cu

2.1. HPLC (Shimadzu Corporation, Kyoto, Japan) Isolation (Gradient: 20%–50% Solvent B within 10 min, Following Increased to 100% in 10 min, and Decreased to 20% in 2 min. and Keep Same Percent to 30 min). Solvent A: Water Plus 0.1% TFA; Solvent B: Acetonitrile Plus 0.1% TFA).

2.2. IR Spectrum of DpdtpA-Cu

Based on literature [1,2], 3273–3493 cm\(^{-1}\) assigned to \(\nu_{\text{NH}}\) of amide, 1457 cm\(^{-1}\) assigned to \(\nu_{\text{C-N}}\) stretching frequency for the thioureide group in the DpdtpA, and 1230 cm\(^{-1}\) were assigned to C=S bond, but in the DpdtpA-Cu, the peaks were disappeared, indicating enolization occurred [1,2].
Figure S5. (a) IR comparison between DpdtpA (red line) and DpdtpA-Cu (blue line); and (b) coordination structure of DpdtpA-Cu proposed tentatively.

References