

# Phosphorescence imaging of living cells with amino acid-functionalized tris(phenylpyridine)iridium(III) complexes.

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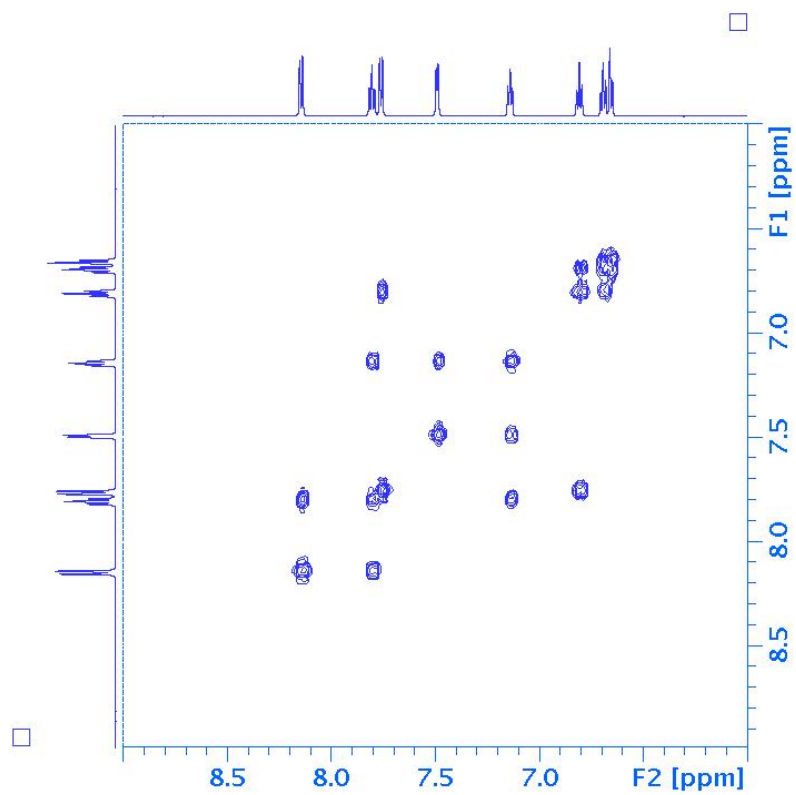


Figure S1. COSY spectrum (600 MHz) of **3** in DMSO.

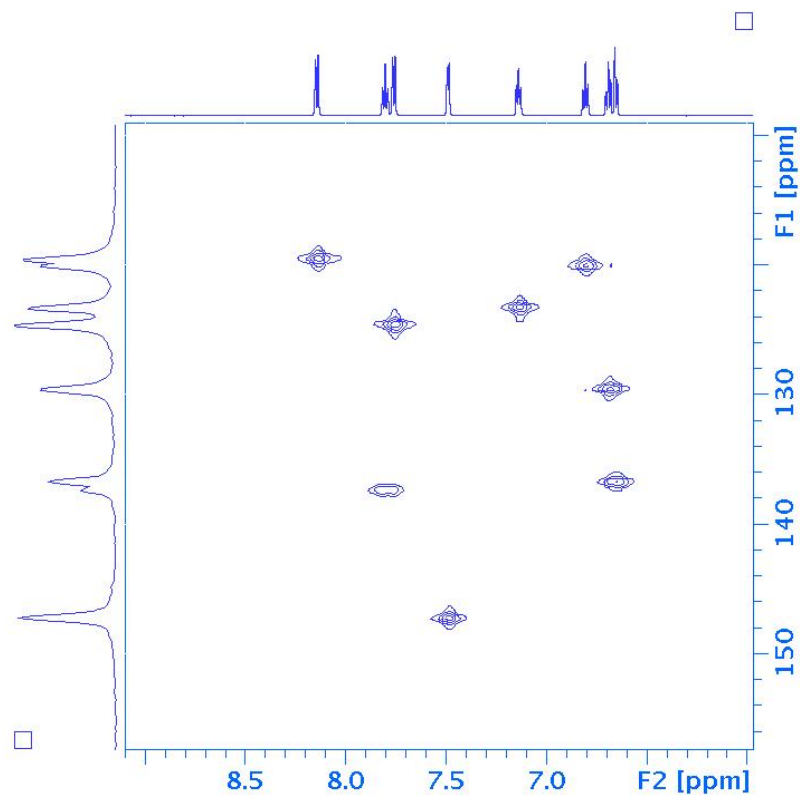


Figure S2. HMQC spectrum (600 MHz) of **3** in DMSO.

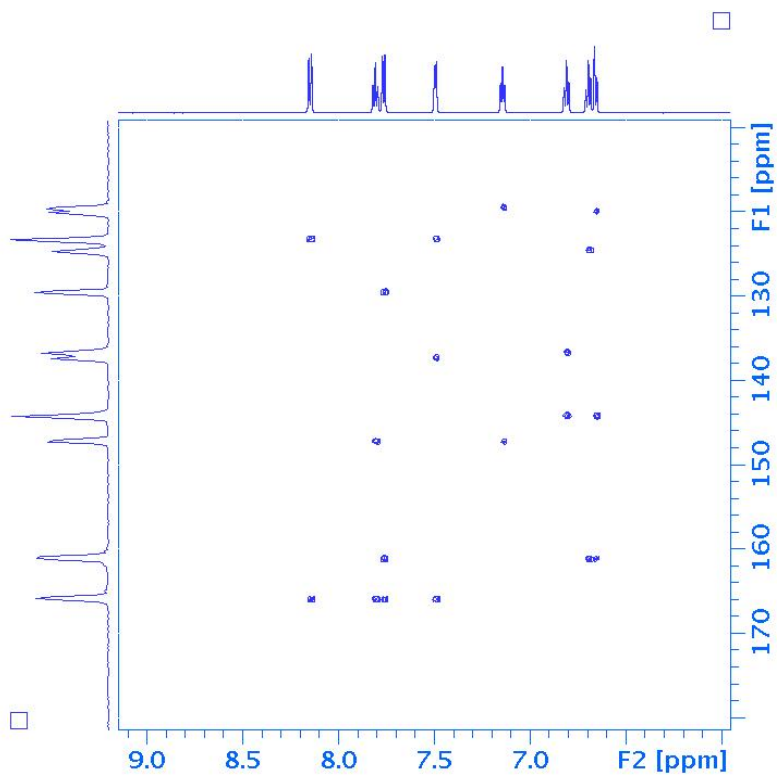


Figure S3. HMBC spectrum (600/150 MHz) of **3** in DMSO

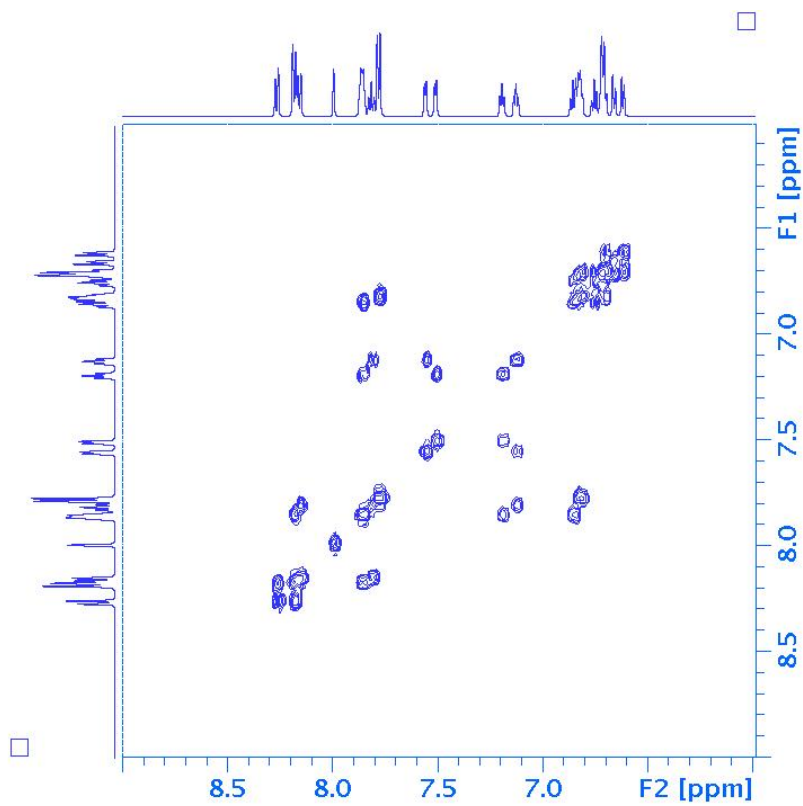


Figure S4. COSY spectrum (600/150 MHz) of **4** in DMSO.

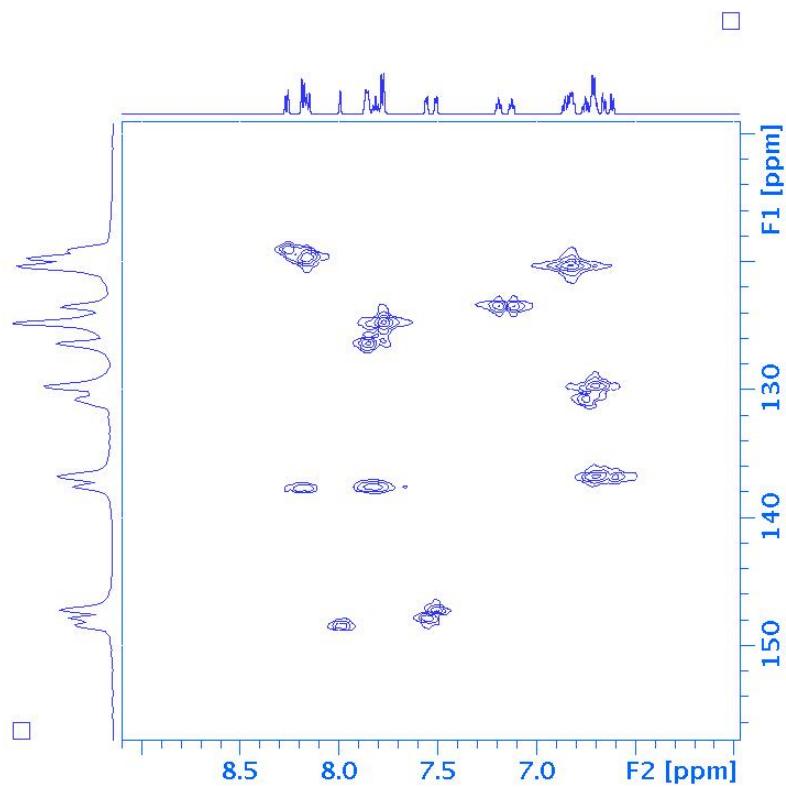


Figure S5. HMQC spectrum (600/150 MHz) of **4** in DMSO.

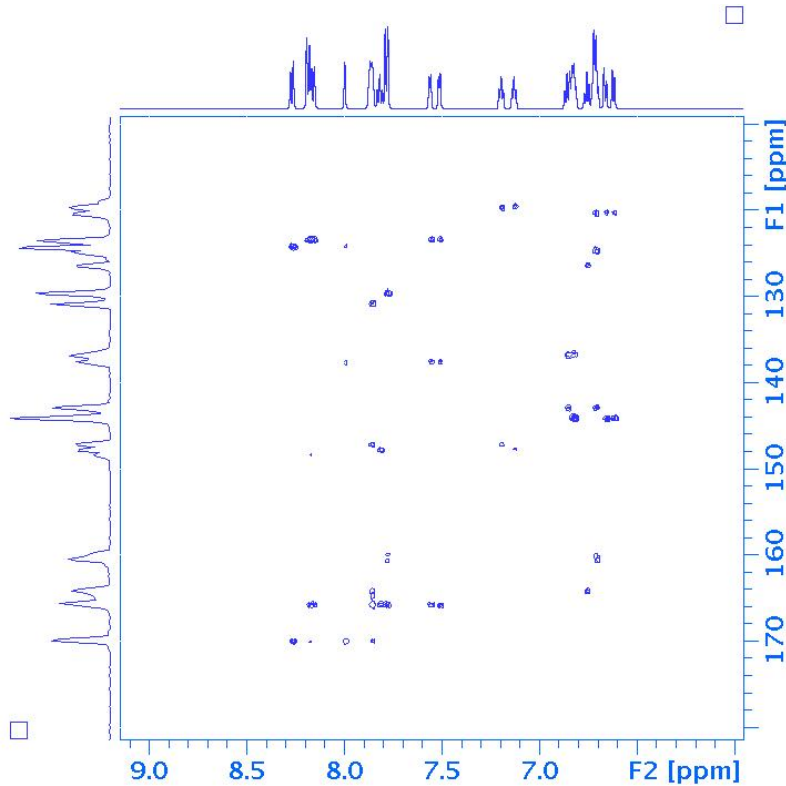


Figure S6. HMBC spectrum (600/150 MHz) of **4** in DMSO

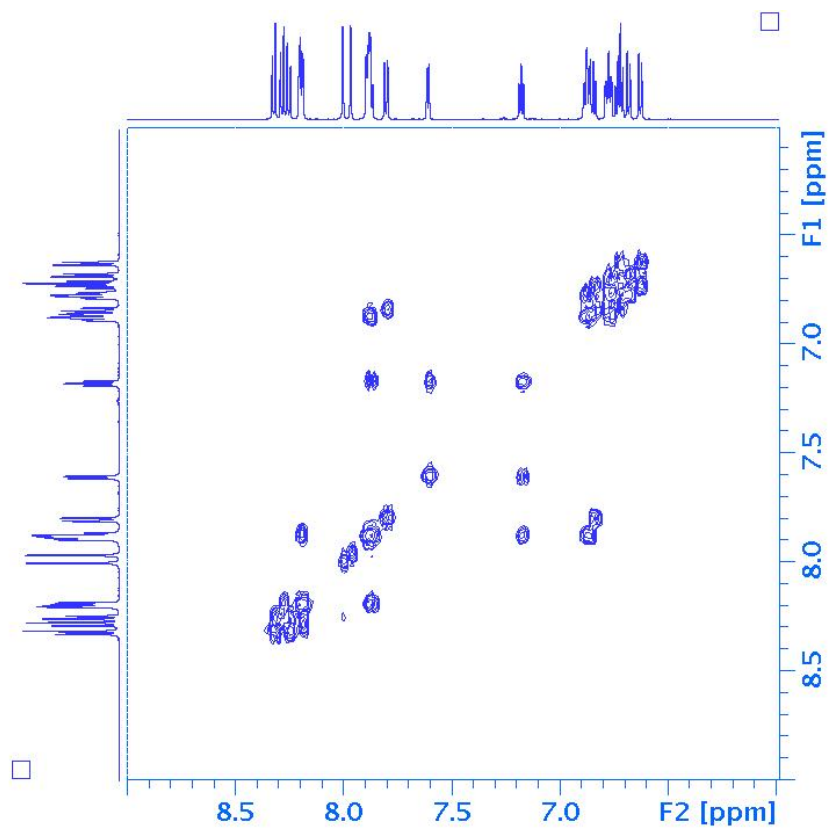


Figure S7. COSY spectrum (600 MHz) of **5** in DMSO.

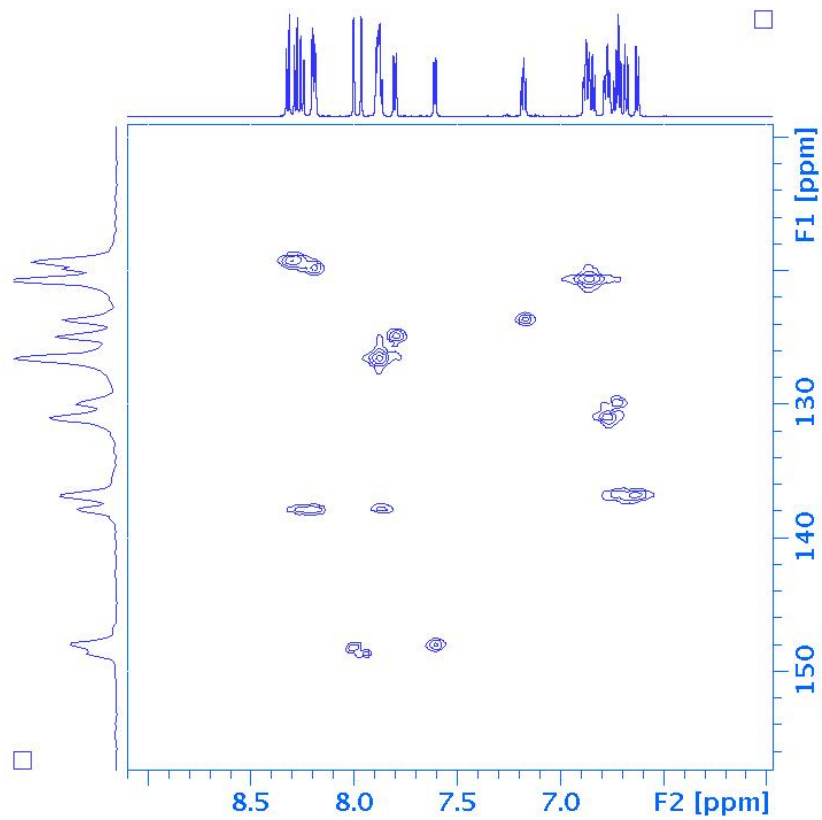


Figure S8. HMQC spectrum (600/150 MHz) of **5** in DMSO

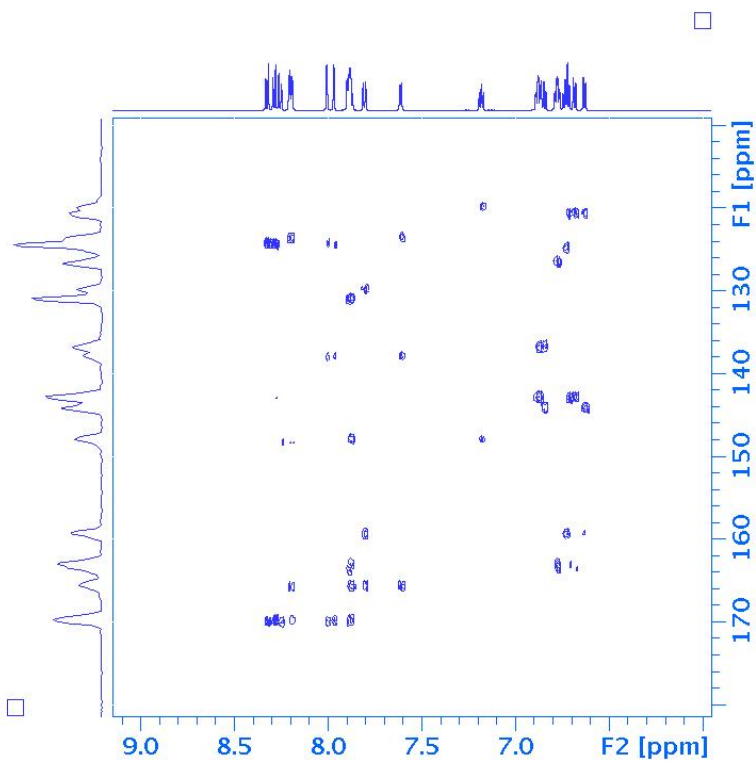


Figure S9. HMBC spectrum (600/150 MHz) of **5** in DMSO.

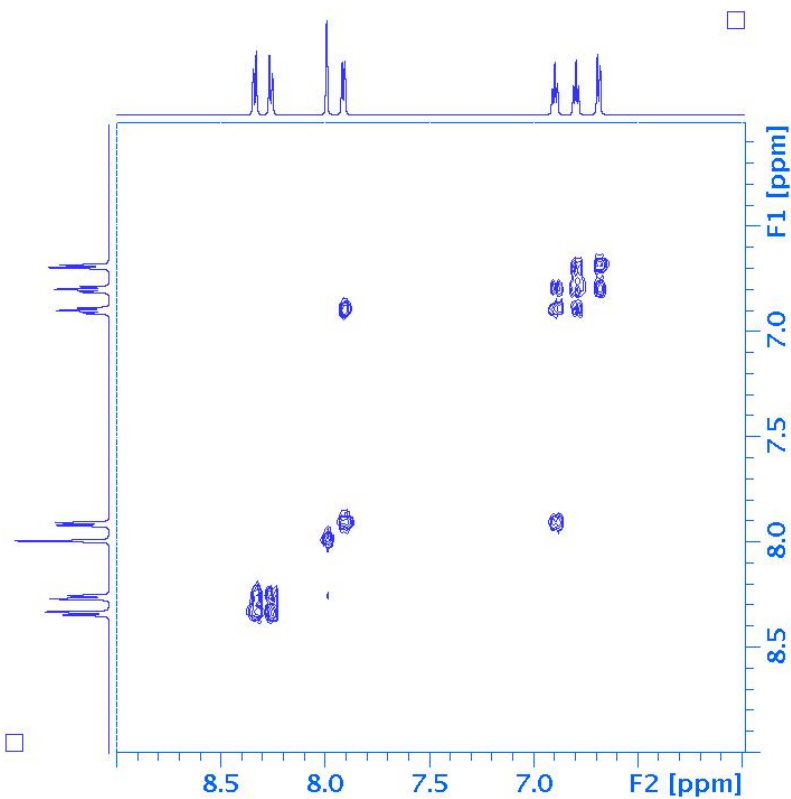


Figure S10. COSY spectrum (600 MHz) of **7** in DMSO.

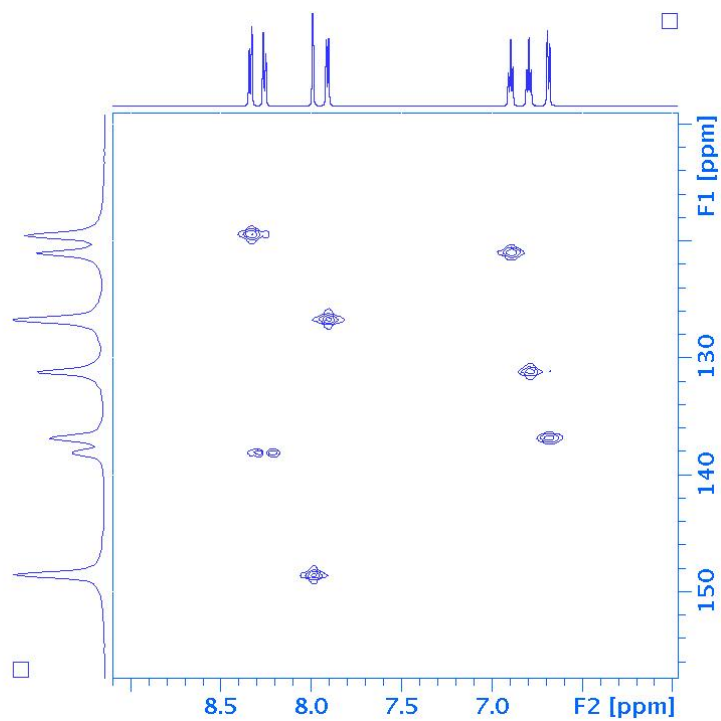


Figure S11. HMQC spectrum (600/150 MHz) of **7** in DMSO.

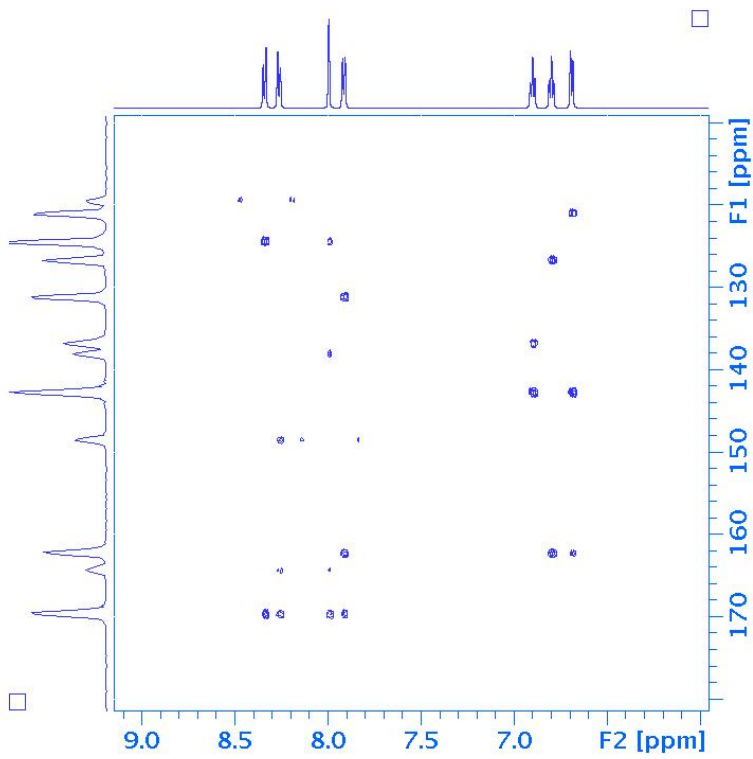


Figure S12. HMBC spectrum (600/150 MHz) of **7** in DMSO.

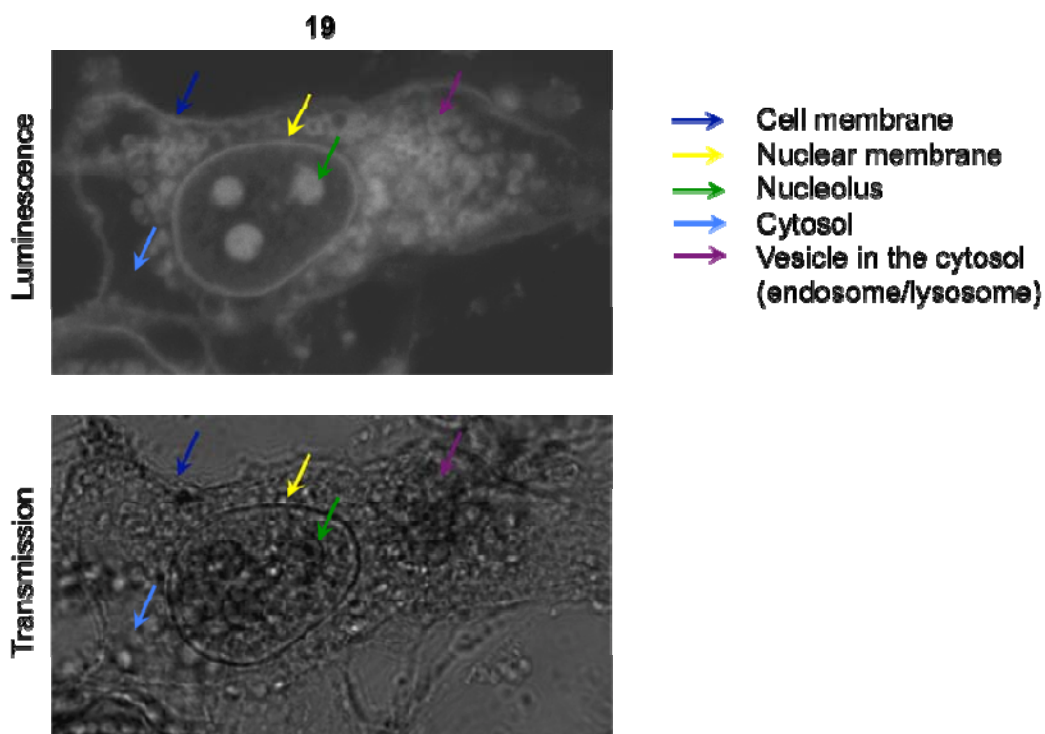


Figure S13. Confocal microscopy image of the cellular distribution of the lysine substituted iridium(III) complex **19**. As shown in the luminescence image, complex **19** was detected in the cytosol (light blue arrow) in vesicles (purple arrow) (endosomes or lysosome). Moreover, accumulation occurred in the nucleoli of the cell nucleus (green arrow). Luminescence is shown in grey scale to provide the best contrast; therefore the transmission image is added separately. A higher concentration DMSO was used as compared to the other experiments.