

Supporting information

Ultrasonic Synthesis and Preliminary Evaluation of Anticoronaviral Activity of 6,7-Dimethoxy-4-(4-methoxyphenyl)piperazin-1-yl)-1-methylquinolin-1-i um iodide

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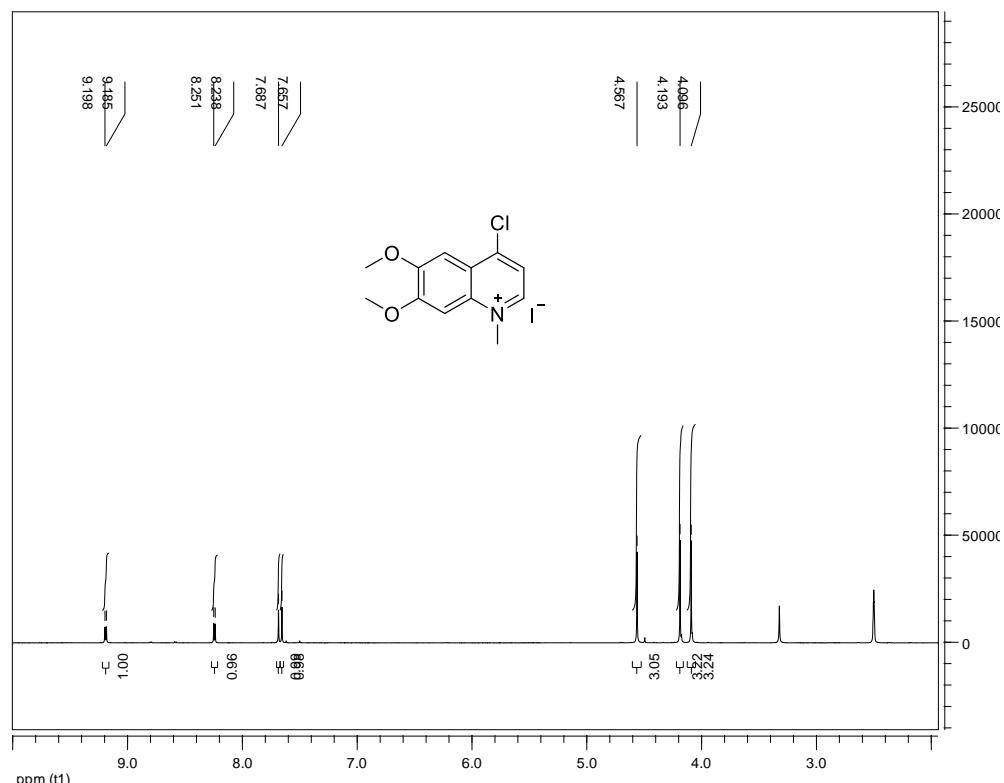


Figure S1. ¹H-NMR Spectrum (DMSO-d₆, 500 MHz) of 4-chloro-6,7-dimethoxy-1-methylquinolin-1-i um iodide (**2a**).

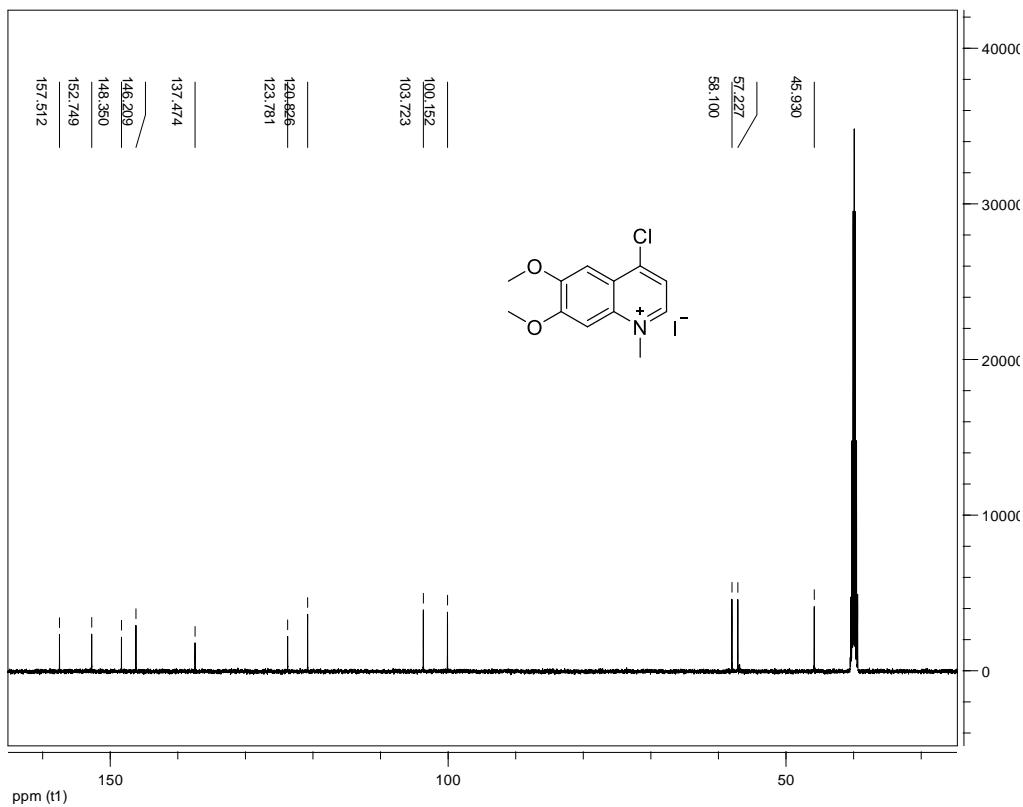


Figure S2. ¹³C-NMR Spectrum (DMSO-d₆, 500 MHz) of 4-chloro-6,7-dimethoxy-1-methylquinolin-1-i um iodide (**2a**).

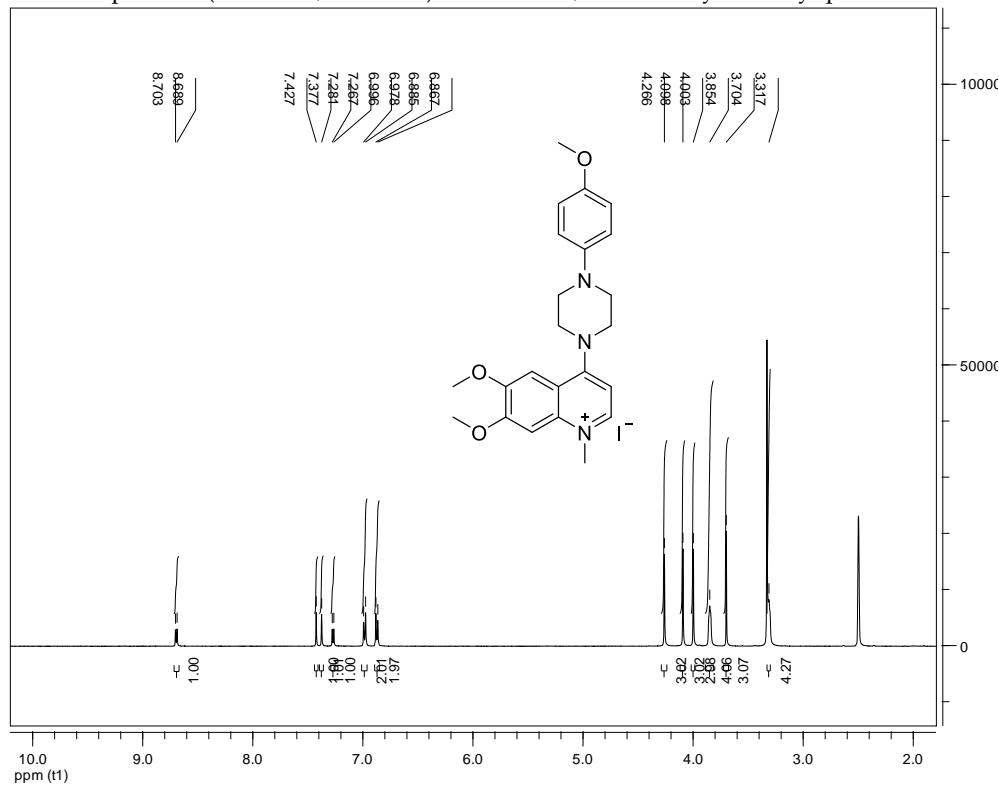


Figure S3. ¹H-NMR Spectrum (DMSO-d₆, 500 MHz) of 6,7-dimethoxy-4-(4-(4-methoxyphenyl)piperazin-1-yl)-1-methylquinolin-1-i um iodide (**3**).

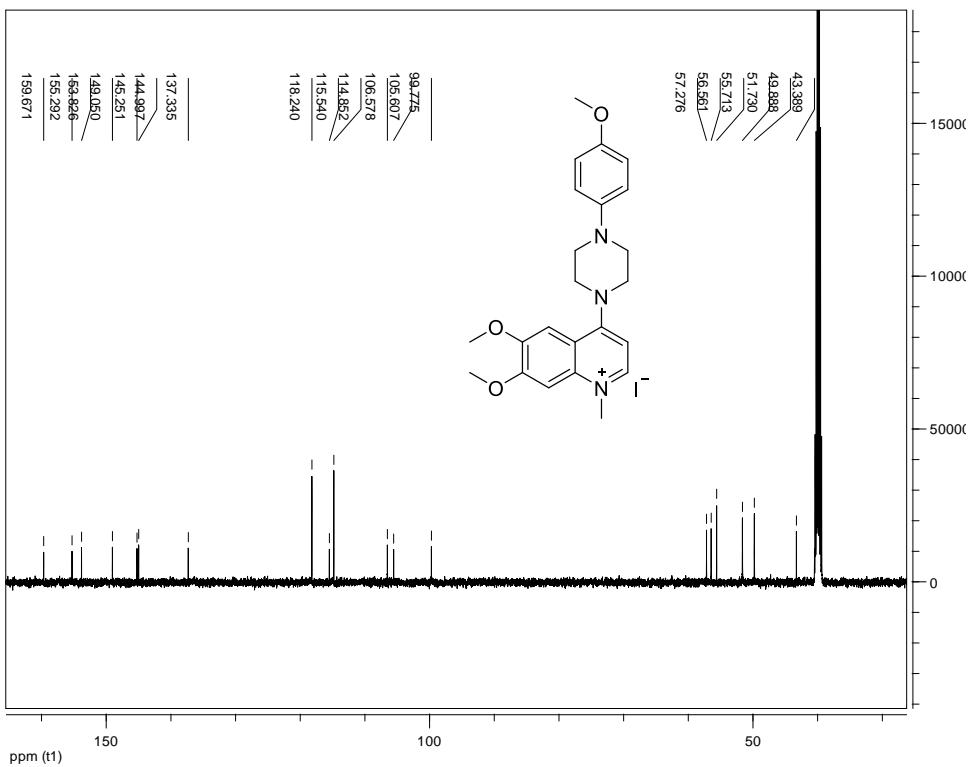


Figure S4. ^{13}C -NMR Spectrum (DMSO-d₆, 500 MHz) of 6,7-dimethoxy-4-(4-(4-methoxyphenyl)piperazin-1-yl)-1-methylquinolin-1-ium iodide (**3**).

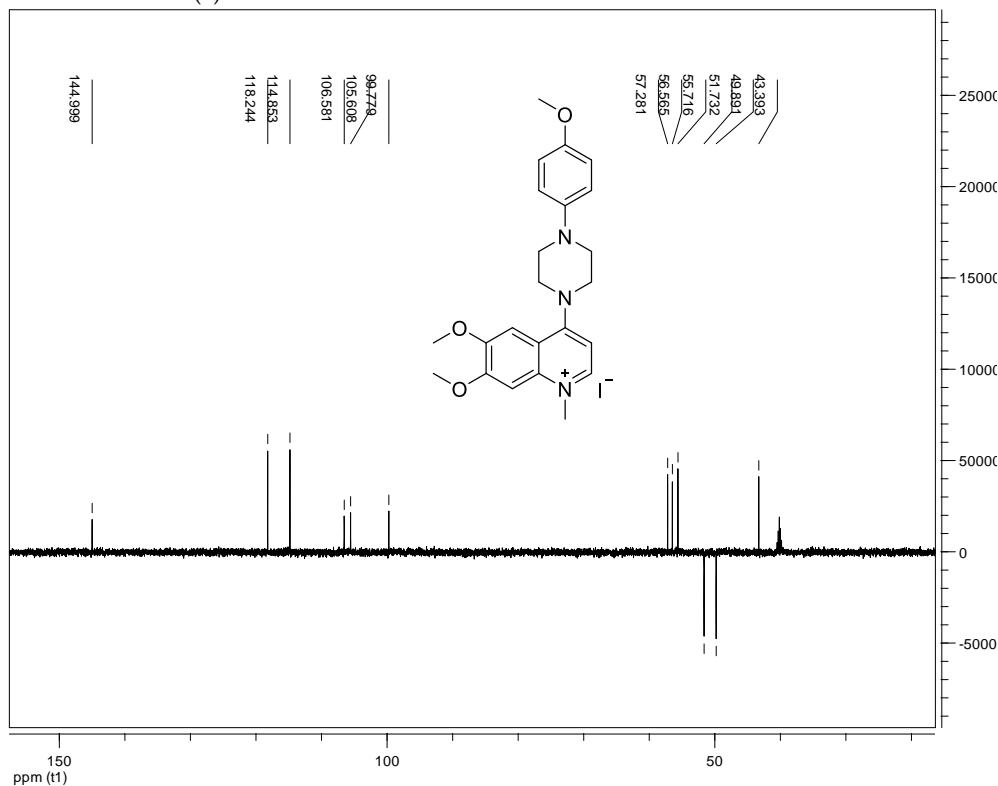


Figure S5. ^{13}C -NMR (DEPT-135) Spectrum (DMSO-d₆, 500 MHz) of 6,7-dimethoxy-4-(4-(4-methoxyphenyl)piperazin-1-yl)-1-methylquinolin-1-ium iodide (**3**).

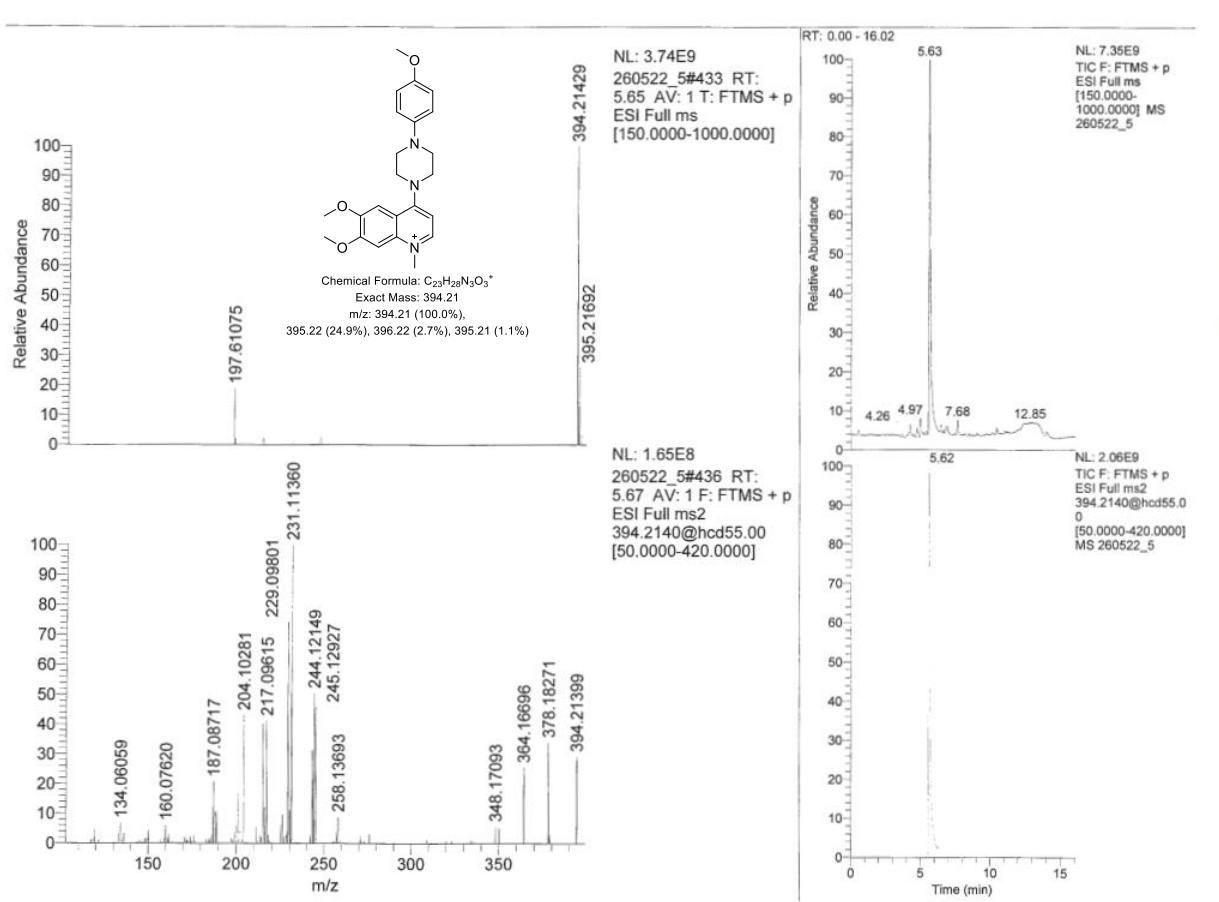


Figure S6. LC-MS of 6,7-dimethoxy-4-(4-methoxyphenyl)piperazin-1-yl)-1-methylquinolin-1-i um iodide (3).

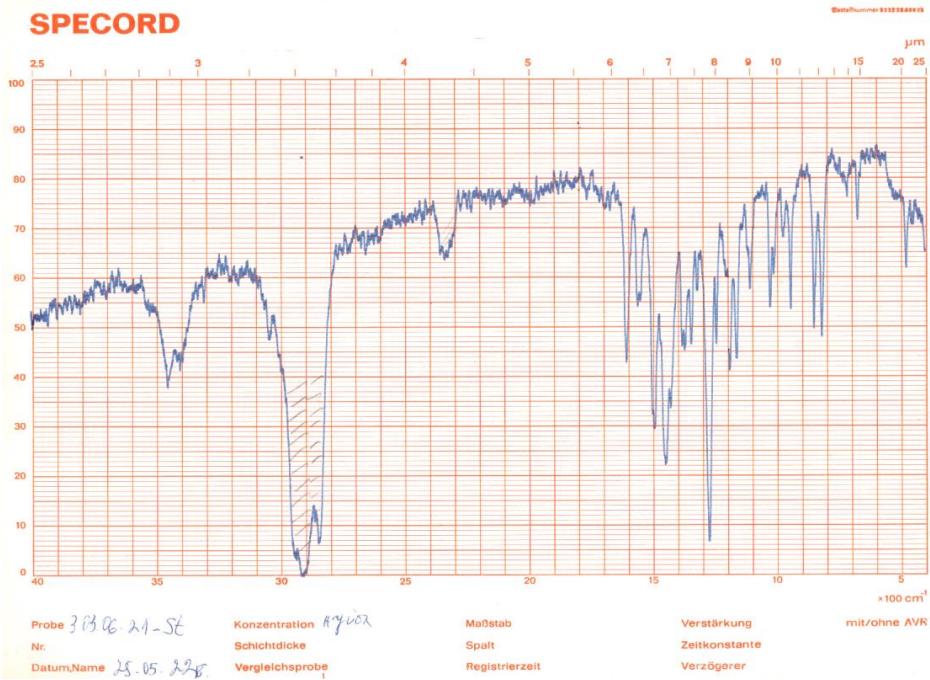


Figure S7. IR spectrum (nujol) of 4-chloro-6,7-dimethoxy-1-methylquinolin-1-i um iodide (2a).

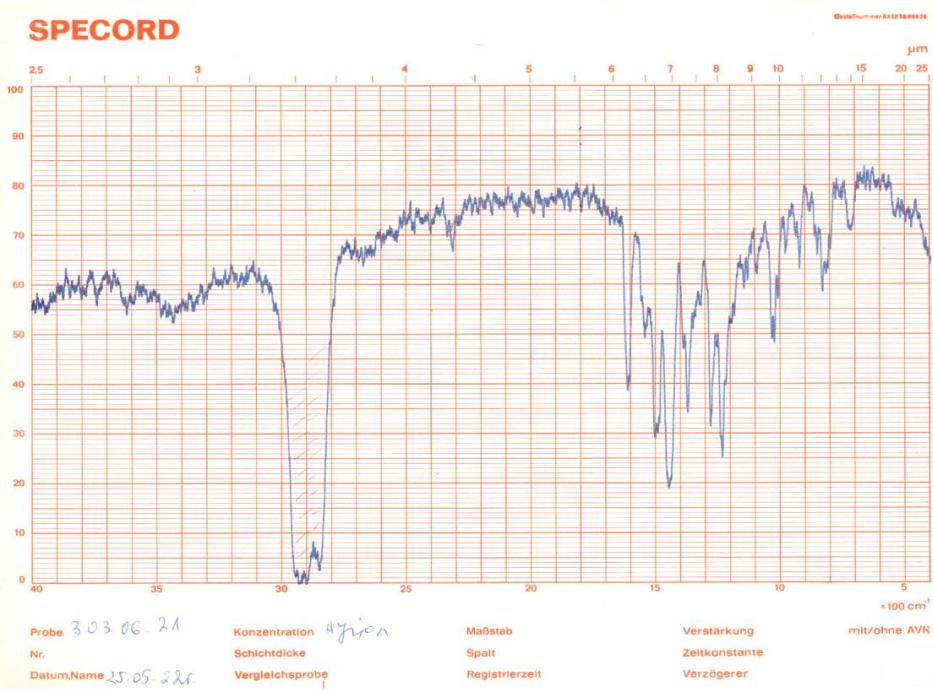


Figure S8. IR spectrum (nujol) of 6,7-dimethoxy-4-(4-(4-methoxyphenyl)piperazin-1-yl)-1-methylquinolin-1-ium iodide (3).