

Supplementary Materials

Cataleptogenic Effect of Haloperidol Formulated in Water-Soluble Calixarene-Based Nanoparticles

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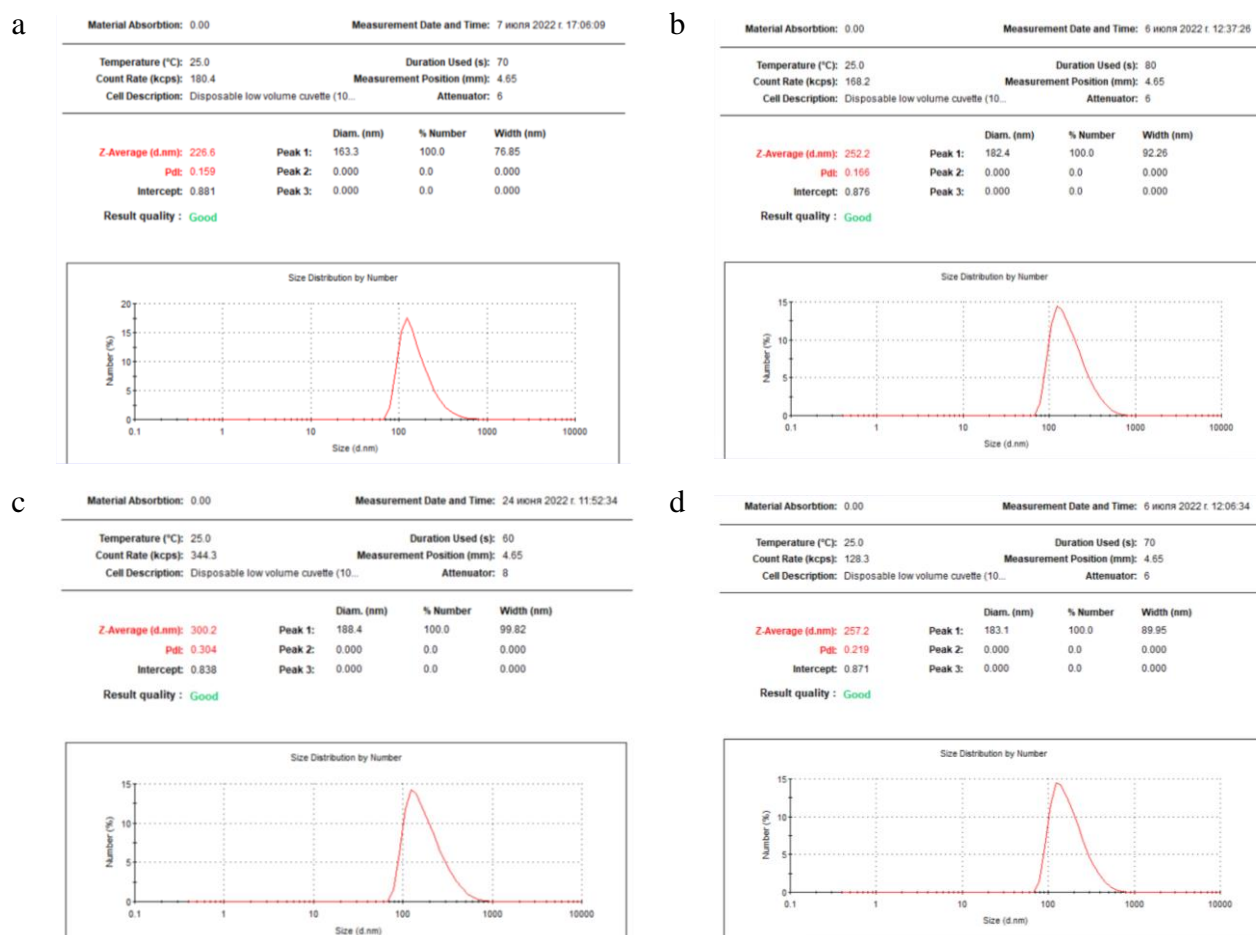
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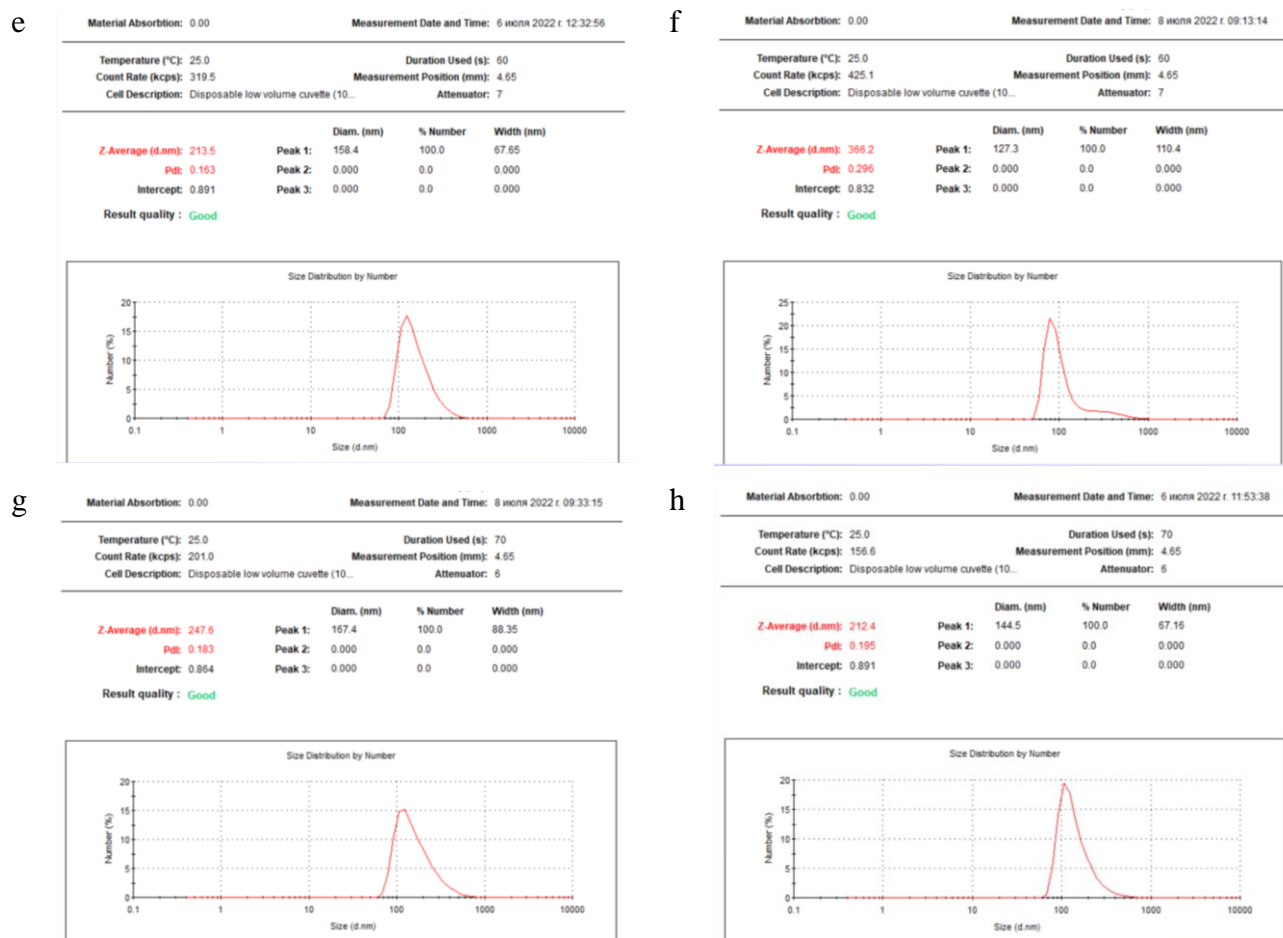


Figure S1. Particle size distribution by number in aqueous solutions of **VC10-Hal** (1:1) at concentration of 0.025 mM (a), 0.05 mM (b), 0.075 mM (c), 0.1 mM (d), 0.15 mM (e), 0.2 mM (f), 0.25 mM (g), 0.3 mM (h).

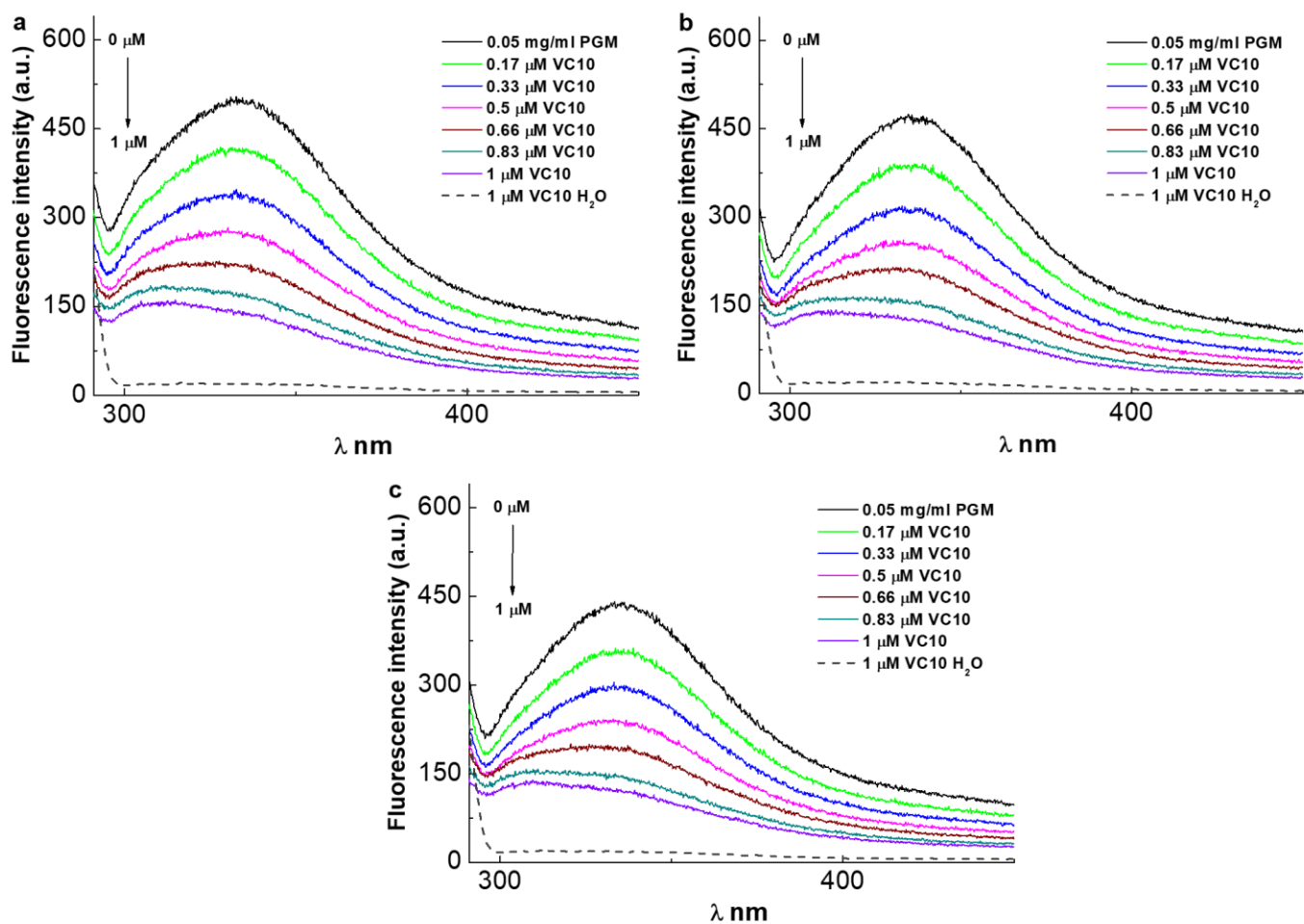


Figure S2. Steady state fluorescence spectra of PGM at a constant concentration of 0.05 mg/mL in the presence of VC10 at 298 K (a), 304 K (b), 310 K (c).

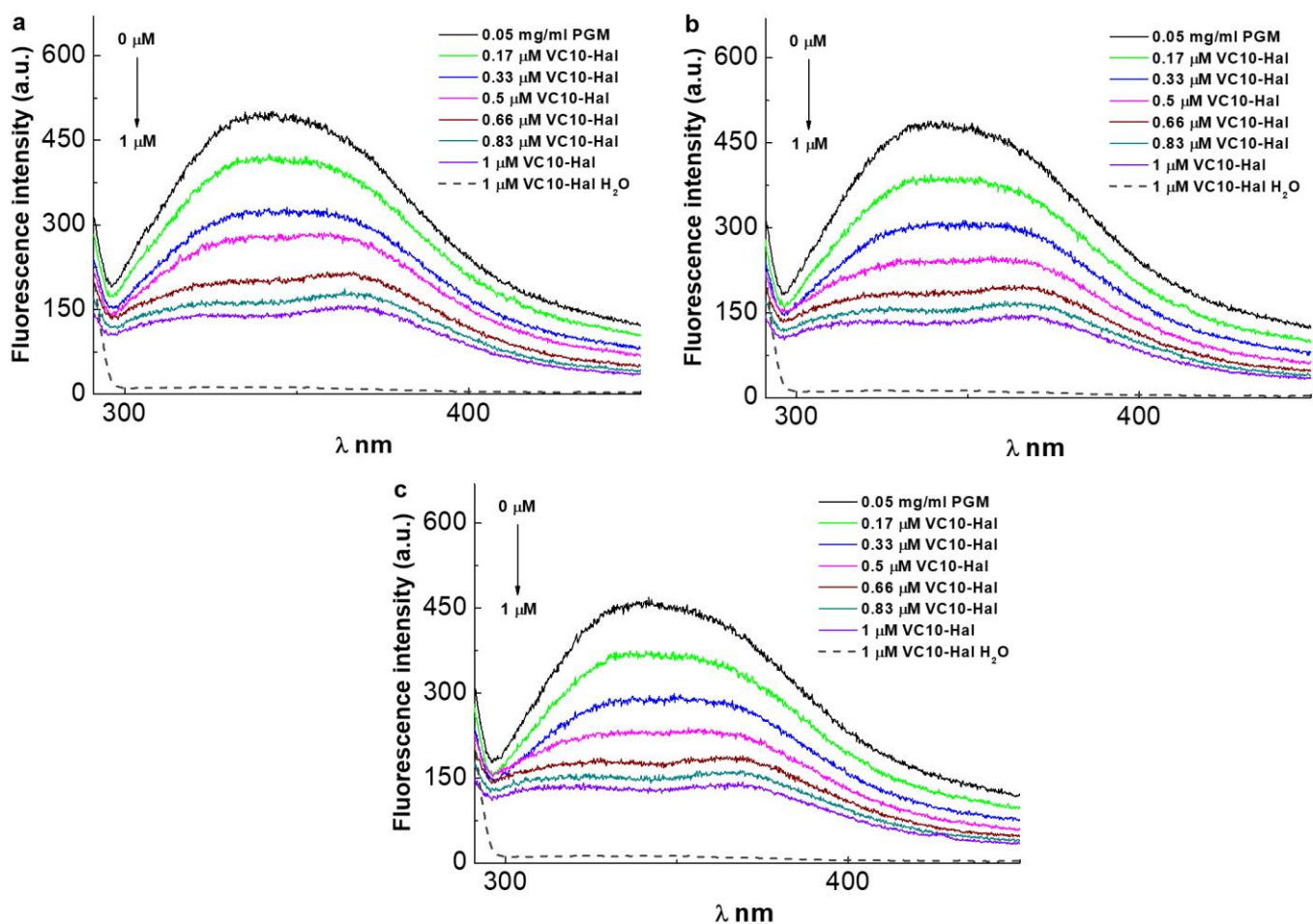


Figure S3. Steady state fluorescence spectra of PGM at a constant concentration of 0.05 mg/mL in the presence of VC10-Hal (1:1) at 298 K (a), 304 K (b), 310 K (c).

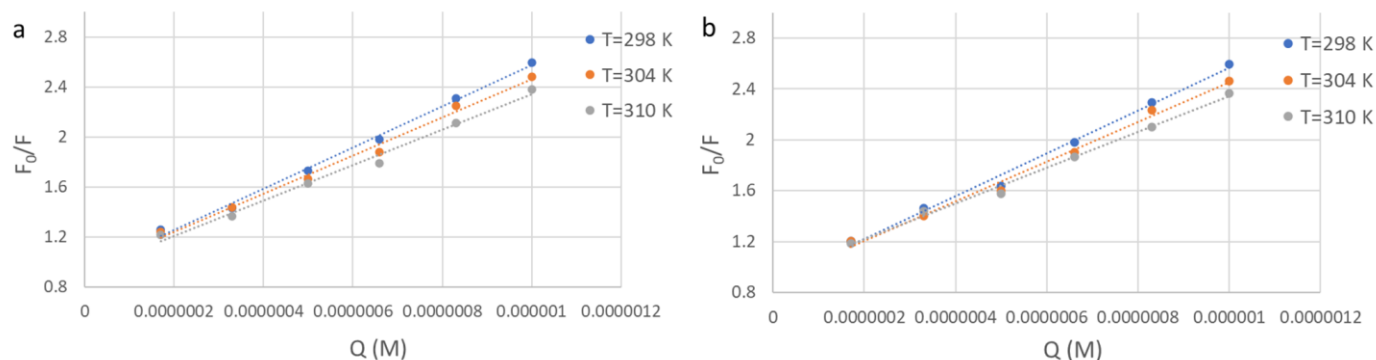


Figure S4. Stern-Volmer plots for fluorescence quenching of PGM by VC10 (a), by VC10-Hal (b) at 298 K, 304 K, 310 K.

Table S1. Effect of viologen decyl calix[4]resorcinol VC10 on the research activity of mice in the "Open field" test. (VC10 in a dose of 1/100 of the LD₅₀ and 1/50 of the LD₅₀, intraperitoneally administration, n=8).

Number of holes examined	Number of holes examined, %	Group
48,5±17,96	100±37,03	Control
19,5±0,76	40,21±1,57	VC10, 1/100 LD ₅₀
21,83±0,91	45,02±1,88	VC10, 1/50 LD ₅₀

Table S2. Effect of viologen decyl calix[4]resorcinol **VC10** on the motor activity of mice in the "Open field" test. (**VC10** in a dose of 1/100 of the LD₅₀ and 1/50 of the LD₅₀, intraperitoneally administration, n=8).

Number of crossed lines	Number of crossed lines, %	Group
77,83±23,37	100±30,03	Control
55±6,79	70,66±8,72	VC10 , 1/100 LD ₅₀
76,83±10,17	98,72±13,06	VC10 , 1/50 LD ₅₀

Table S3. Effect of viologen decyl calix[4]resorcinol **VC10** on the the number of entrances to the center of mice in the "Open field" test. (**VC10** in a dose of 1/100 of the LD₅₀ and 1/50 of the LD₅₀, intraperitoneally administration, n=8).

Number of entrances to the center	Number of entrances to the center, %	Group
3,67±1,41	100±38,35	Control
2,33±0,67	63,64±18,18	VC10 , 1/100 LD ₅₀
3,67±0,61	100±16,76	VC10 , 1/50 LD ₅₀