Additional file 3. Description of prepared systems for molecular dynamics simulations.

System	Model	Cell	POPC Lipid count	Sodium ion count	Chlorine ion count	TIP3P water count	System size, nm
1	*m*5HT7/CDK5	hexagon	400	137	156	50159	13.12* 11.36*15.378*6.56
2	*h*5HT7/CDK5	hexagon	478	154	171	56641	4.25 *12.34 *14.84*7.13