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## Supplementary data

### **Investigation of lipophilicity and pharmacokinetic properties of 2-(methoxy)phenylpiperazine dopamine D2 ligands**

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**Table S1.**  $R_F$  values of the investigated substances in chromatographic system  
MeOH/5%NH<sub>3</sub>/H<sub>2</sub>O

Comp.	92.5%MeOH	90%MeOH	87.5%MeOH	85%MeOH	82.5%MeOH
<b>1</b>	0.53	0.40	0.33	0.32	0.27
<b>2</b>	0.62	0.47	0.40	0.37	0.33
<b>3</b>	0.58	0.44	0.39	0.37	0.33
<b>4</b>	0.55	0.42	0.35	0.33	0.31
<b>5</b>	0.44	0.31	0.25	0.24	0.20
<b>6</b>	0.55	0.39	0.32	0.29	0.25
<b>7</b>	0.51	0.37	0.31	0.29	0.24
<b>8</b>	0.51	0.38	0.31	0.28	0.24
<b>9</b>	0.75	0.62	0.58	0.51	0.53
<b>10</b>	0.74	0.62	0.57	0.52	0.51
<b>11</b>	0.73	0.60	0.55	0.51	0.50
<b>12</b>	0.74	0.63	0.58	0.53	0.49
<b>13</b>	0.72	0.58	0.53	0.48	0.46
<b>14</b>	0.74	0.60	0.55	0.50	0.50
<b>15</b>	0.73	0.59	0.53	0.49	0.46
<b>16</b>	0.75	0.62	0.55	0.53	0.51
<b>17</b>	0.64	0.64	0.53	0.43	0.52
<b>18</b>	0.61	0.64	0.55	0.53	0.49
<b>19</b>	0.64	0.64	0.53	0.52	0.49
<b>20</b>	0.64	0.62	0.51	0.51	0.44
<b>21</b>	0.67	0.61	0.49	0.48	0.44
<b>22</b>	0.64	0.62	0.49	0.48	0.44
<b>23</b>	0.65	0.62	0.49	0.48	0.44
<b>24</b>	0.64	0.61	0.48	0.47	0.42
<b>25</b>	0.40	0.36	0.25	0.22	0.20
<b>26</b>	0.44	0.39	0.28	0.27	0.25
<b>27</b>	0.44	0.38	0.31	0.27	0.25
<b>28</b>	0.41	0.38	0.28	0.23	0.22
<b>29</b>	0.35	0.27	0.15	0.14	0.14
<b>30</b>	0.40	0.31	0.20	0.16	0.16
<b>31</b>	0.42	0.37	0.28	0.24	0.22
<b>32</b>	0.38	0.31	0.19	0.17	0.16

**Table S2.**  $R_F$  values of the investigated substances in chromatographic system  
Acetone/5%NH<sub>3</sub>/H<sub>2</sub>O

<b>Comp.</b>	<b>85% Acetone</b>	<b>80% Acetone</b>	<b>75% Acetone</b>	<b>70% Acetone</b>	<b>65% Acetone</b>
<b>1</b>	0.62	0.46	0.40	0.31	0.22
<b>2</b>	0.68	0.53	0.44	0.33	0.21
<b>3</b>	0.66	0.52	0.44	0.33	0.22
<b>4</b>	0.65	0.51	0.43	0.32	0.22
<b>5</b>	0.51	0.35	0.30	0.20	0.13
<b>6</b>	0.62	0.44	0.35	0.22	0.13
<b>7</b>	0.59	0.42	0.33	0.21	0.13
<b>8</b>	0.60	0.44	0.35	0.22	0.13
<b>9</b>	0.77	0.67	0.60	0.50	0.40
<b>10</b>	0.77	0.67	0.59	0.49	0.37
<b>11</b>	0.76	0.65	0.58	0.47	0.35
<b>12</b>	0.76	0.65	0.58	0.47	0.34
<b>13</b>	0.73	0.61	0.53	0.42	0.31
<b>14</b>	0.74	0.61	0.53	0.42	0.3
<b>15</b>	0.72	0.59	0.51	0.39	0.28
<b>16</b>	0.73	0.60	0.53	0.39	0.28
<b>17</b>	0.83	0.72	0.64	0.57	0.50
<b>18</b>	0.83	0.72	0.64	0.57	0.49
<b>19</b>	0.83	0.72	0.63	0.55	0.47
<b>20</b>	0.83	0.72	0.64	0.55	0.47
<b>21</b>	0.79	0.71	0.63	0.54	0.45
<b>22</b>	0.80	0.67	0.59	0.5	0.39
<b>23</b>	0.80	0.66	0.59	0.49	0.39
<b>24</b>	0.80	0.67	0.60	0.50	0.39
<b>25</b>	0.58	0.45	0.38	0.30	0.23
<b>26</b>	0.62	0.50	0.42	0.33	0.27
<b>27</b>	0.64	0.51	0.42	0.33	0.27
<b>28</b>	0.59	0.47	0.40	0.31	0.24
<b>29</b>	0.44	0.29	0.20	0.15	0.12
<b>30</b>	0.54	0.35	0.31	0.22	0.15
<b>31</b>	0.59	0.47	0.40	0.31	0.24
<b>32</b>	0.52	0.35	0.29	0.21	0.15

**Table S3.**  $R_F$  values of the investigated substances in chromatographic system  
Dioxane/5%NH<sub>3</sub>/H<sub>2</sub>O

<b>Comp.</b>	<b>80% Dioxane</b>	<b>75% Dioxane</b>	<b>70% Dioxane</b>	<b>65% Dioxane</b>	<b>60% Dioxane</b>
<b>1</b>	0.64	0.56	0.41	0.34	0.25
<b>2</b>	0.68	0.62	0.44	0.33	0.23
<b>3</b>	0.68	0.64	0.45	0.37	0.28
<b>4</b>	0.66	0.63	0.44	0.36	0.27
<b>5</b>	0.48	0.42	0.26	0.19	0.13
<b>6</b>	0.57	0.50	0.43	0.20	0.11
<b>7</b>	0.59	0.53	0.31	0.22	0.13
<b>8</b>	0.59	0.53	0.34	0.23	0.14
<b>9</b>	0.81	0.77	0.67	0.60	0.51
<b>10</b>	0.83	0.79	0.68	0.61	0.53
<b>11</b>	0.81	0.78	0.67	0.58	0.50
<b>12</b>	0.83	0.78	0.65	0.61	0.50
<b>13</b>	0.75	0.72	0.57	0.49	0.39
<b>14</b>	0.80	0.72	0.61	0.53	0.42
<b>15</b>	0.80	0.72	0.58	0.49	0.39
<b>16</b>	0.80	0.72	0.59	0.49	0.4
<b>17</b>	0.74	0.74	0.64	0.59	0.48
<b>18</b>	0.77	0.75	0.67	0.60	0.50
<b>19</b>	0.78	0.76	0.67	0.60	0.49
<b>20</b>	0.79	0.77	0.67	0.6	0.49
<b>21</b>	0.69	0.67	0.55	0.48	0.35
<b>22</b>	0.73	0.70	0.58	0.49	0.35
<b>23</b>	0.73	0.70	0.58	0.48	0.35
<b>24</b>	0.74	0.71	0.58	0.50	0.38
<b>25</b>	0.50	0.45	0.31	0.23	0.18
<b>26</b>	0.56	0.52	0.37	0.28	0.20
<b>27</b>	0.56	0.52	0.38	0.29	0.20
<b>28</b>	0.57	0.54	0.39	0.29	0.18
<b>29</b>	0.39	0.34	0.21	0.14	0.07
<b>30</b>	0.46	0.40	0.25	0.18	0.09
<b>31</b>	0.56	0.52	0.38	0.28	0.18
<b>32</b>	0.47	0.41	0.25	0.18	0.11

**Table S4.**  $R_F$  values obtained by microemulsion thin-layer chromatography

Comp.	METLC1	METLC2
<b>1</b>	0.3	0.42
<b>2</b>	0.37	0.47
<b>3</b>	0.34	0.44
<b>4</b>	0.34	0.44
<b>5</b>	0.28	0.4
<b>6</b>	0.35	0.45
<b>7</b>	0.33	0.42
<b>8</b>	0.33	0.42
<b>9</b>	0.53	0.65
<b>10</b>	0.55	0.64
<b>11</b>	0.52	0.62
<b>12</b>	0.53	0.63
<b>13</b>	0.50	0.57
<b>14</b>	0.54	0.62
<b>15</b>	0.51	0.60
<b>16</b>	0.52	0.61
<b>17</b>	0.49	0.57
<b>18</b>	0.51	0.61
<b>19</b>	0.50	0.60
<b>20</b>	0.51	0.61
<b>21</b>	0.44	0.52
<b>22</b>	0.49	0.57
<b>23</b>	0.49	0.57
<b>24</b>	0.49	0.57
<b>25</b>	0.23	0.35
<b>26</b>	0.24	0.36
<b>27</b>	0.27	0.39
<b>28</b>	0.24	0.36
<b>29</b>	0.20	0.32
<b>30</b>	0.22	0.34
<b>31</b>	0.24	0.36
<b>32</b>	0.20	0.32

**Table S5.** Regression coefficients for chromatographic system MeOH/5%NH<sub>3</sub>/H<sub>2</sub>O

Comp.	R <sub>M</sub> <sup>0</sup>	-b	r	R <sup>2</sup>	F	P	N
<b>1</b>	4.16±0.73	0.040±0.008	0.951	0.905	28.611	0.013	5
<b>2</b>	4.38±0.83	0.050±0.009	0.948	0.898	26.517	0.014	5
<b>3</b>	3.72±0.77	0.040±0.009	0.936	0.877	21.390	0.019	5
<b>4</b>	3.82±0.82	0.040±0.009	0.931	0.867	19.512	0.022	5
<b>5</b>	4.42±0.78	0.050±0.009	0.948	0.898	26.534	0.014	5
<b>6</b>	4.89±0.86	0.050±0.010	0.952	0.907	29.099	0.012	5
<b>7</b>	4.47±0.73	0.050±0.008	0.958	0.917	33.164	0.010	5
<b>8</b>	4.61±0.65	0.050±0.007	0.967	0.936	43.854	0.007	5
<b>9</b>	3.48±1.00	0.040±0.011	0.904	0.817	13.381	0.035	5
<b>10</b>	3.51±0.81	0.040±0.009	0.935	0.875	20.914	0.020	5
<b>11</b>	3.44±0.89	0.040±0.010	0.919	0.844	16.203	0.028	5
<b>12</b>	3.76±0.59	0.040±0.007	0.968	0.937	44.656	0.007	5
<b>13</b>	3.87±0.87	0.050±0.010	0.936	0.875	21.076	0.019	5
<b>14</b>	3.65±1.00	0.040±0.011	0.910	0.828	14.490	0.032	5
<b>15</b>	4.01±0.88	0.050±0.010	0.938	0.880	22.071	0.018	5
<b>16</b>	3.61±0.98	0.040±0.011	0.912	0.832	14.854	0.031	5
<b>17</b>	2.72±1.22	0.030±0.014	0.800	0.640	5.326	0.104	5
<b>18</b>	2.06±0.58	0.020±0.007	0.909	0.826	14.207	0.033	5
<b>19</b>	2.51±0.58	0.030±0.007	0.935	0.874	20.832	0.020	5
<b>20</b>	3.09±0.52	0.040±0.006	0.962	0.925	37.193	0.009	5
<b>21</b>	3.62±0.65	0.040±0.007	0.958	0.917	33.296	0.010	5
<b>22</b>	3.29±0.64	0.040±0.007	0.950	0.902	27.637	0.013	5
<b>23</b>	3.42±0.64	0.040±0.007	0.953	0.908	29.733	0.012	5
<b>24</b>	3.55±0.61	0.040±0.007	0.960	0.922	35.295	0.010	5
<b>25</b>	4.44±0.59	0.050±0.007	0.969	0.939	46.274	0.006	5
<b>26</b>	3.76±0.67	0.040±0.008	0.948	0.898	26.540	0.014	5
<b>27</b>	3.69±0.34	0.040±0.004	0.985	0.971	101.037	0.002	5
<b>28</b>	4.20±0.56	0.040±0.006	0.970	0.941	47.691	0.006	5
<b>29</b>	5.49±1.24	0.060±0.014	0.916	0.839	15.597	0.029	5
<b>30</b>	5.63±0.93	0.060±0.011	0.954	0.909	30.102	0.012	5
<b>31</b>	4.18±0.43	0.040±0.005	0.981	0.963	78.730	0.003	5
<b>32</b>	5.27±0.92	0.050±0.011	0.948	0.898	26.465	0.014	5

**Table S6.** Regression coefficients for chromatographic system Acetone/5%NH<sub>3</sub>/H<sub>2</sub>O

Comp.	R <sub>M</sub> <sup>0</sup>	-b	r	R <sup>2</sup>	F	P	N
<b>1</b>	2.89±0.21	0.040±0.003	0.991	0.982	162.600	0.001	5
<b>2</b>	3.37±0.17	0.040±0.002	0.996	0.992	377.097	0.000	5
<b>3</b>	3.15±0.15	0.040±0.002	0.996	0.993	401.582	0.000	5
<b>4</b>	3.12±0.13	0.040±0.002	0.997	0.994	493.000	0.000	5
<b>5</b>	3.44±0.22	0.040±0.003	0.992	0.985	195.829	0.001	5
<b>6</b>	4.09±0.18	0.050±0.002	0.997	0.993	426.452	0.000	5
<b>7</b>	3.94±0.15	0.050±0.002	0.997	0.995	572.029	0.000	5
<b>8</b>	3.99±0.17	0.050±0.002	0.997	0.994	465.050	0.000	5
<b>9</b>	2.40±0.10	0.030±0.001	0.998	0.996	688.318	0.000	5
<b>10</b>	2.61±0.10	0.040±0.001	0.998	0.996	813.143	0.000	5
<b>11</b>	2.67±0.13	0.040±0.002	0.997	0.993	449.165	0.000	5
<b>12</b>	2.73±0.15	0.040±0.002	0.996	0.992	358.135	0.000	5
<b>13</b>	2.80±0.11	0.040±0.002	0.998	0.995	632.891	0.000	5
<b>14</b>	2.93±0.15	0.040±0.002	0.996	0.993	413.060	0.000	5
<b>15</b>	2.99±0.13	0.040±0.002	0.997	0.994	535.731	0.000	5
<b>16</b>	3.07±0.16	0.040±0.002	0.996	0.992	358.653	0.000	5
<b>17</b>	2.20±0.27	0.030±0.004	0.983	0.966	84.657	0.003	5
<b>18</b>	2.26±0.26	0.030±0.003	0.985	0.971	100.819	0.002	5
<b>19</b>	2.43±0.24	0.040±0.003	0.988	0.976	123.273	0.002	5
<b>20</b>	2.43±0.22	0.040±0.003	0.990	0.980	147.178	0.001	5
<b>21</b>	2.23±0.05	0.030±0.001	0.999	0.999	2666.539	0.000	5
<b>22</b>	2.68±0.22	0.040±0.003	0.992	0.983	176.414	0.001	5
<b>23</b>	2.68±0.25	0.040±0.003	0.989	0.978	131.085	0.001	5
<b>24</b>	2.67±0.21	0.040±0.003	0.992	0.984	186.726	0.001	5
<b>25</b>	2.63±0.13	0.030±0.002	0.996	0.991	335.950	0.000	5
<b>26</b>	2.53±0.13	0.030±0.002	0.996	0.992	366.109	0.000	5
<b>27</b>	2.66±0.16	0.030±0.002	0.994	0.988	250.488	0.001	5
<b>28</b>	2.60±0.10	0.030±0.001	0.997	0.995	577.633	0.000	5
<b>29</b>	3.37±0.30	0.040±0.004	0.984	0.968	89.707	0.002	5
<b>30</b>	3.26±0.30	0.040±0.004	0.984	0.969	92.787	0.002	5
<b>31</b>	2.60±0.10	0.030±0.001	0.997	0.995	577.633	0.000	5
<b>32</b>	3.21±0.23	0.040±0.003	0.990	0.981	151.628	0.001	5

**Table S7.** Regression coefficients for chromatographic system Dioxane/5%NH<sub>3</sub>/H<sub>2</sub>O

Comp.	R <sub>M</sub> <sup>0</sup>	-b	r	R <sup>2</sup>	F	p	N
<b>1</b>	2.70±0.15	0.040±0.002	0.995	0.990	311.660	0.000	5
<b>2</b>	3.19±0.21	0.040±0.003	0.993	0.986	213.038	0.001	5
<b>3</b>	2.77±0.28	0.040±0.004	0.985	0.970	98.395	0.002	5
<b>4</b>	2.74±0.29	0.040±0.004	0.983	0.966	84.790	0.003	5
<b>5</b>	3.32±0.22	0.040±0.003	0.992	0.983	175.473	0.001	5
<b>6</b>	4.03±0.58	0.050±0.008	0.965	0.932	41.098	0.008	5
<b>7</b>	3.90±0.31	0.050±0.004	0.989	0.978	135.638	0.001	5
<b>8</b>	3.74±0.27	0.050±0.004	0.991	0.983	171.930	0.001	5
<b>9</b>	1.87±0.12	0.030±0.002	0.996	0.991	347.470	0.000	5
<b>10</b>	1.95±0.16	0.030±0.002	0.993	0.986	215.271	0.001	5
<b>11</b>	2.01±0.18	0.030±0.003	0.991	0.983	171.080	0.001	5
<b>12</b>	2.09±0.22	0.030±0.003	0.988	0.977	125.210	0.002	5
<b>13</b>	2.32±0.23	0.040±0.003	0.987	0.975	115.686	0.002	5
<b>14</b>	2.36±0.09	0.040±0.001	0.998	0.997	884.091	0.000	5
<b>15</b>	2.64±0.15	0.040±0.002	0.996	0.992	373.423	0.000	5
<b>16</b>	2.58±0.13	0.040±0.002	0.997	0.993	453.044	0.000	5
<b>17</b>	1.53±0.26	0.030±0.004	0.969	0.940	46.763	0.006	5
<b>18</b>	1.59±0.18	0.030±0.003	0.987	0.974	112.618	0.002	5
<b>19</b>	1.74±0.20	0.030±0.003	0.986	0.973	108.049	0.002	5
<b>20</b>	1.83±0.20	0.030±0.003	0.987	0.974	113.281	0.002	5
<b>21</b>	2.12±0.26	0.030±0.004	0.981	0.962	75.236	0.003	5
<b>22</b>	2.37±0.25	0.040±0.004	0.986	0.971	102.052	0.002	5
<b>23</b>	2.40±0.24	0.040±0.003	0.987	0.974	114.415	0.002	5
<b>24</b>	2.26±0.21	0.030±0.003	0.989	0.977	129.199	0.001	5
<b>25</b>	2.78±0.20	0.040±0.003	0.990	0.981	155.171	0.001	5
<b>26</b>	2.82±0.22	0.040±0.003	0.990	0.980	143.889	0.001	5
<b>27</b>	2.78±0.22	0.040±0.003	0.990	0.979	142.598	0.001	5
<b>28</b>	3.04±0.30	0.040±0.004	0.983	0.967	87.974	0.003	5
<b>29</b>	3.90±0.32	0.050±0.005	0.986	0.973	107.773	0.002	5
<b>30</b>	3.77±0.31	0.050±0.004	0.987	0.975	114.808	0.002	5
<b>31</b>	2.99±0.26	0.040±0.004	0.988	0.975	118.150	0.002	5
<b>32</b>	3.55±0.23	0.040±0.003	0.992	0.984	180.654	0.001	5

**Table S8.**  $R_M$  values of the investigated substances for chromatographyc systems METLC1 and METLC 2

<b>Comp.</b>	<b>METLC1</b>	<b>METLC2</b>
<b>1</b>	0.37	0.14
<b>2</b>	0.23	0.05
<b>3</b>	0.29	0.10
<b>4</b>	0.29	0.10
<b>5</b>	0.41	0.18
<b>6</b>	0.27	0.09
<b>7</b>	0.31	0.14
<b>8</b>	0.31	0.14
<b>9</b>	-0.05	-0.27
<b>10</b>	-0.09	-0.25
<b>11</b>	-0.03	-0.21
<b>12</b>	-0.05	-0.23
<b>13</b>	0.00	-0.12
<b>14</b>	-0.07	-0.21
<b>15</b>	-0.02	-0.18
<b>16</b>	-0.03	-0.19
<b>17</b>	0.02	-0.12
<b>18</b>	-0.02	-0.19
<b>19</b>	0.00	-0.18
<b>20</b>	-0.02	-0.19
<b>21</b>	0.10	-0.03
<b>22</b>	0.02	-0.12
<b>23</b>	0.02	-0.12
<b>24</b>	0.02	-0.12
<b>25</b>	0.52	0.27
<b>26</b>	0.50	0.25
<b>27</b>	0.43	0.19
<b>28</b>	0.50	0.25
<b>29</b>	0.60	0.33
<b>30</b>	0.55	0.29
<b>31</b>	0.50	0.25
<b>32</b>	0.60	0.33

**Table S9.** Correlations between experimental and calculated lipophilicity values

	C <sup>0</sup> MeOH	R <sub>M</sub> <sup>0</sup> MeOH	C <sup>0</sup> Ac	R <sub>M</sub> <sup>0</sup> Ac	C <sup>0</sup> Diox	R <sub>M</sub> <sup>0</sup> Diox	ME TLC1	ME TLC2	milogP	AlogPs	AClogP	AlogP	MlogP	XlogP2	XlogP3	QPlogPo/w
<b>C<sup>0</sup> MeOH</b>	1.00															
<b>R<sub>M</sub><sup>0</sup> MeOH</b>	0.76	1.00														
<b>C<sup>0</sup> Ac</b>	0.90	0.90	1.00													
<b>R<sub>M</sub><sup>0</sup> Ac</b>	0.47	0.70	0.69	1.00												
<b>C<sup>0</sup> Diox</b>	0.97	0.84	0.93	0.59	1.00											
<b>RM0 Diox</b>	0.81	0.90	0.91	0.86	0.89	1.00										
<b>METLC1</b>	0.98	0.73	0.87	0.38	0.94	0.76	1.00									
<b>METLC2</b>	0.98	0.74	0.87	0.43	0.96	0.79	0.99	1.00								
<b>milogP</b>	0.89	0.65	0.73	0.39	0.90	0.75	0.89	0.91	1.00							
<b>AlogPs</b>	0.85	0.69	0.73	0.42	0.89	0.78	0.84	0.87	0.96	1.00						
<b>AClogP</b>	0.58	0.61	0.63	0.10	0.57	0.46	0.61	0.56	0.44	0.55	1.00					
<b>AlogP</b>	0.89	0.84	0.89	0.60	0.95	0.89	0.86	0.89	0.91	0.93	0.61	1.00				
<b>MlogP</b>	0.86	0.83	0.88	0.56	0.90	0.87	0.83	0.84	0.84	0.91	0.75	0.95	1.00			
<b>XlogP2</b>	0.87	0.89	0.95	0.59	0.92	0.86	0.85	0.85	0.75	0.78	0.73	0.94	0.91	1.00		
<b>XlogP3</b>	0.95	0.80	0.89	0.39	0.94	0.78	0.96	0.95	0.86	0.85	0.76	0.92	0.90	0.94	1.00	
<b>QPlogPo/w</b>	0.67	0.69	0.70	0.27	0.73	0.56	0.67	0.67	0.59	0.57	0.58	0.75	0.62	0.84	0.81	1.00