**Table 1: Mean Ki values of new and established antipsychotics showing varying affinities to dopamine, serotonin, alpha-adrenergic, histamine and muscarinic receptors**

All values in nM

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **D1** | **D2** | **D3** | **D4** | **5HT1A** | **5HT2A** | **5HT2C** | **α1** | **α2** | **H1** | **M1** | **M3** | **M4** |
| Haloperidol1 | 83 | 1.4 | 2.9 | 3 | 1808 | 84.7 | 5000 | 4.7 | 1202.3 | 851.1 | 4374 | 1000 | >10000 |
| Chlorpromazine1 | 112 | 2.3 | 2.4 | 15.7 | 3057.5 | 2.8 | 15.6 | 1.4 | 281.8 | 2.8 | 39.8 | 57 | 77 |
| Amisulpride1 | 10001 | 2.2 | 2.4 | 2369 | 10000 | 8304 | 10000 | 7100 | 1600 | 10000 | >10000 | 10000 | >10000 |
| Risperidone1 | 267 | 2.2 | 6 | 7.8 | 420 | 0.4 | 23.5 | 1.4 | 5.1 | 18.8 | 7035 | 10000 | 7633 |
| Olanzapine1 | 52.5 | 20.4 | 43.8 | 28.3 | 2063 | 3.2 | 12.1 | 55 | 173.8 | 2.4 | 24.2 | 78 | 206 |
| Quetiapine1 | 741.3 | 212.5 | 340 | 2100 | 320 | 200 | 1406.3 | 15 | 1000 | 8.7 | 241.8 | 1631.5 | 475.7 |
| Aripiprazole1 | 387 | 1.4 | 1 | 216.5 | 5.6 | 8.7 | 18.7 | 27.6 | 72.4 | 29 | 6774 | 4677 | 1521 |
| Clozapine1 | 192.5 | 119 | 242 | 29.5 | 140 | 6.5 | 15.2 | 4 | 33.1 | 1.8 | 8.71 | 25 | 17.7 |
| Cariprazine1,2 | No data | 0.59a | 0.085 | No data | 3 | 19 | 134 | No data | No data | 23 | >1000 | >1000 | >1000 |
| Brexpiprazole1,3,4 | 164 | 0.3b | 1.1 | 6.3 | 0.12 | 0.47 | 34 | 1.99c | 0.59d | 19 | >1000 | No data | No data |
| Brilaroxazine5 | No data | 0.37 | 3.7 | 6 | 1.5 | 2.5 | 39 | No data | No data | No data | No data | No data | No data |
| Lumateperone6,7,8 | 52 | 32e | No data | No data | No data | 0.54 | 173 | 73e | <100 | >1000 | >100 | >100 | >100 |
| F174649-11 | >10 000 | 9.3f | 0.17 | >10 000 | 0.16 | 436.5 | 1995 | 794.3g | 255.4h | 21.4 | >10 000 | >10 000 | No data |
| Lu AF35700 | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data |
| Pimavanserin12,13 | >300 | >300 | >300 | No data | No data | 0.087 | 0.44 | >300 | >300 | >300 | >300 | >300 | >300 |
| Roluperidone14-16 | No datai | No datai | No datai | No datai | No data | 7.53j | No data | 14.43j | No data | No data | No data | No data | No data |
| Ulotaront17 | No data | 21300 | No data | No data | 284 | 17250 | 2450 | No data | 1245k | No data | No data | No data | No data |
| Xanomeline1 | No data | 1000 | 398.1 | No data | 63.1 | 125.9 | 39.8 | 1584l | No data | No data | 79.4 | 39.8 | 20.0 |
| BI 409306 | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data |
| BI 425809 | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data |
| MK-8189 | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data | No data |

Footnotes

a: D2 long=0.49nM, D2 short=0.69nM

b: D2 long=0.3nM, no data for D2 short

c: α1a =3.8nM, α1b =0.17nM

d: α2c =0.59nM, no data for other α2 receptor subtypes

e: data from rat receptors

f: D2 long=12.1nM, D2 short=6.6nM

g: α1b=794.3nM, no data for other α1 receptor subtypes

h: α2a=281.8nM, α2b=208.9nM, α2c=275.4nM

i: IC50 > 1000nM at dopamine receptors

j: not reported whether data from human brain tissue

k: α2a =590nM, α2b =1900nM

l: α1b= 1584 nM

Sources:

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