

Table S8. The distance of W^{6.48} (Toggle switch) to I^{3.40} (PIF motif) in structures of dopamine receptors.

Receptor	Ligand		Signal protein	Method	PDB	Res.	State	Degree active (%)	W6.48-I3.40 distance	Reference
	Name	Function								
DRD1	rotigotine	Agonist	Gs	cryo-EM	8IRR	3.2	Active	-	3.9	This paper
DRD2	rotigotine	Agonist	Gi/o	cryo-EM	8IRS	3.0	Active	-	4.0	This paper
DRD3	rotigotine	Agonist	Gi/o	cryo-EM	8IRT	2.7	Active	-	4.0	This paper
DRD4	rotigotine	Agonist	Gi/o	cryo-EM	8IRU	3.2	Active	-	4.0	This paper
DRD5	rotigotine	Agonist	Gs	cryo-EM	8IRW	3.1	Active	-	4.0	This paper
DRD1	Cpd1	Agonist	Gs	X-ray	7JOZ	3.8	Active	100	4.2	10.1038/s41467-021-23519-9
DRD1	PW0464	Agonist	Gs	cryo-EM	7CKY	3.2	Active	100	3.6	10.1016/J.CELL.2021.01.028
DRD1	dopamine	Agonist	Gs	cryo-EM	7LJD	3.2	Active	100	4.1	10.1101/2021.02.07.430101
DRD1	SKF-82526	Agonist	Gs	cryo-EM	7CKW	3.2	Active	100	3.5	10.1016/J.CELL.2021.01.028
DRD1	CHEMBL1416789	Agonist	Gs	cryo-EM	7CRH	3.3	Active	100	3.7	10.1016/J.CELL.2021.01.028
DRD1	dopamine	Agonist	Gs	cryo-EM	7CKZ	3.1	Active	100	3.5	10.1016/J.CELL.2021.01.028
DRD1	AA77636	Agonist	Gs	cryo-EM	7CKX	3.5	Active	100	3.6	10.1016/J.CELL.2021.01.028
DRD1	SKF-81297	Agonist	Gs	cryo-EM	7LJC	3.0	Active	100	3.8	10.1101/2021.02.07.430101
DRD1	39YC3L0ZU	Agonist	Gs	cryo-EM	7JVP	2.9	Active	100	3.9	10.1016/J.CELL.2021.01.027
DRD1	apomorphine	Agonist	Gs	cryo-EM	7JVQ	3.0	Active	100	4.2	10.1016/J.CELL.2021.01.027
DRD1	SKF-81297	Agonist	Gs	cryo-EM	7JV5	3.0	Active	100	3.5	10.1016/J.CELL.2021.01.027
DRD2	bromocriptine	Agonist	Gi/o	cryo-EM	7JVR	2.8	Active	100	4.0	10.1016/J.CELL.2021.01.027
DRD2	bromocriptine	Agonist	Gi/o	cryo-EM	6VMS	3.8	Active	100	4.6	10.1038/S41586-020-2379-5
DRD3	PD128907	Agonist	Gi/o	cryo-EM	7CMV	2.7	Active	100	4.1	10.1016/J.MOLCEL.2021.01.003
DRD3	pramipexole	Agonist	Gi/o	cryo-EM	7CMU	3.0	Active	100	3.8	10.1016/J.MOLCEL.2021.01.003
DRD2	piperone	Antagonist	-	X-ray	7DFP	3.1	Inactive	1	8.4	10.1038/S41467-020-20221-0
DRD2	haloperidol	Antagonist	-	X-ray	6LUQ	3.1	Inactive	1	8.3	10.1038/S41467-020-14884-Y
DRD2	risperidone	Inverse agonist	-	X-ray	6CM4	2.9	Inactive	1	8.6	10.1038/NATURE25758
DRD3	eticlopride	Antagonist	-	X-ray	3PBL	2.9	Inactive	1	8.0	10.1126/SCIENCE.1197410
DRD4	L745870	Antagonist	-	X-ray	6IQL	3.5	Inactive	83	4.9	10.7554/ELIFE.48822
DRD4	[3H]NEMONAPRIDE	Antagonist	-	X-ray	5WIU	2.0	Inactive	1	6.0	10.1126/SCIENCE.AAN5468
DRD4	[3H]NEMONAPRIDE	Antagonist	-	X-ray	5WIV	2.1	Inactive	1	6.1	10.1126/SCIENCE.AAN5468