

**PDSP BINDING ASSAY INFORMATION**

modified on

4/29/2008

Not in PDSP on-line

just added

Changes

See Attached Sheet for Buffer Information

Receptor	Cold Ligand	3H-Ligand	Incubation Time/Conditions	Binding Buffer	Harvester Buffer	Source
5-HT1A	5HT / Methysergide	8-OH-DPAT	1.5 hours @ Room Temp in Dark	Standard Binding Buffer	Standard Harvesting Buffer	H, cloned [SL]
5-HT1B	Ergotamine	GR-125743 / 5CT				H, cloned [SL]
5-HT1D				H, cloned		
5-HT1E	5HT	5HT		Standard+0.05% Ascorbate		H, cloned [SL]
5-HT1F***						H, cloned
5-HT2A	Chlorpromazine	Ketanserin		Standard Binding Buffer		H, cloned [SL]
5-HT2B	5HT / Norfenfluramine / Methysergide	LSD				H, cloned [COS]
5-HT2C	Chlorpromazine	Mesulergine		Standard+0.05% Ascorbate		R, cloned [SL]
5-HT3	LY-278,584	LY 278,584 Zacepride				H, cloned [COS]
5-HT4-L***	SDZ-205557	5HT		Standard Binding Buffer		H, cloned
5-HT4-S***						H, cloned
5-HT5a	Ergotamine	LSD		Standard Binding Buffer		H, cloned [COS]
5-HT6	Haloperidol / Chlorpromazine					H, cloned [SL]
5-HT7						H, cloned [COS]
D1A	SKF38393/Fluphenazine	SCH23390	1.5 hours @ Room Temp in Dark	HEPES Dopamine Binding Buffer	Standard Harvesting Buffer	H, cloned [SL]
hD2	Haloperidol / Chlorpromazine	N-Methylspiperone, NMSP				H, cloned [SL]
rD3						R, cloned [SL]
hD4						H, cloned [SL]
hD5	SKF38393/Olanzapine	SCH23390				H, cloned [COS]
Mu Opiate (MOR)	Naloxone	<del>Diprenorphine</del> DAMGO	1.5 hours @ Room Temp in Dark	Standard Binding Buffer	Standard Harvesting Buffer	H, cloned [SL]
Delta Opiate (DOR)	Naltrindole	DADL				H, cloned
Kappa Opiate (KOR)	Naloxone / Salvinorin A	<del>Diprenorphine</del> U69593				R, cloned [SL]
hH1	Chlorpheniramine / Chlorpromazine	Pyrilamine	1.5 hours @ Room Temp in Dark	Histamine Binding Buffer	Standard Harvesting Buffer	H, cloned [SL]
hH2	Cimetidine	Tiotidine				H, cloned [SL]
hH3	Histamine	Alpha Methyl Histamine				H, cloned [SL]
hH4	Clozapine	Histamine				H, cloned [SL]
SERT	Fluoxetine / Amitriptyline	Citalopram	1.5 hours @ Room Temp in Dark	Transport Binding Buffer	Standard Harvesting Buffer	H, cloned [SL]
NET	Desipramine / Nortriptyline	Nisoxetine				H, cloned [SL]
DAT	GBR 12909	WIN35428				H, cloned [SL]
V1	Vasopressin	Vasopressin	1.5 hours @ Room Temp in Dark	Vasopressin Binding Buffer	Standard Harvesting Buffer	H, cloned [SL]
V2						H, cloned [SL]
V3						H, cloned [SL]
EP1***	EP2	PGE2	1.5 hours @ Room Temp in Dark	Prostaglandin Binding Buffer	Standard Harvesting Buffer	H, cloned
EP2***						H, cloned
EP3						H, cloned
EP4						H, cloned
α-PKC	Phorbol 12-myristate 13-acetate	Phorbol 12,13-Dibutyrate (PDBU)	1.5 hours @ Room Temp in Dark	PKC Binding Buffer	Standard Harvesting Buffer	H, cloned
β-PKC						H, cloned
δ-PKC						H, cloned
γ-PKC						H, cloned
ε-PKC						H, cloned
<b>KEY:</b>	Human: H Stable Line: SL	Guinea Pig: GP Rat: R	*** : Assay in Development			

Receptor	Cold Ligand	3H-Ligand	Incubation Time/Conditions	Binding Buffer	Harvester Buffer	Source		
A1***	NECA	NECA	1.5 hours @ Room Temp in Dark	Adenosine Binding Buffer	Standard Harvesting Buffer			
A2		NECA						
VMAT1***	reserpine	Tetrabenazine (TBZ)	1.5 hours @ Room Temp in Dark		Standard Harvesting Buffer			
VMAT2***								
GABA-A	GABA	Muscimol	1.5 hours @ Room Temp in Dark	50mM Tris-Acetate pH 7.4	Standard Harvesting Buffer	R, forebrain		
GABA-A BZP 1	Diazepam	RO-15-1788 Flunitrazepam		1.5 hours @ Room Temp in Dark		50mM Tris-Acetate pH 7.4	Standard Harvesting Buffer	R, cloned
GABA-A BZP 2								H, cloned
GABA-A BZP 3								H, cloned
GABA-A BZP 5	GABA	Baclofen	1.5 hours @ Room Temp in Dark	50mM Tris-Acetate pH 7.4	Standard Harvesting Buffer	H, cloned		
GABA-A BZP 6						R, forebrain		
GABA-B*								
PBR - BZP (peripheral)	PK11195	PK11195	1 hour @ 4 °C	50 mM Tris-HCl pH 7.4	Standard Harvesting Buffer	R, Kidney		
AMPA***	Glutamic acid	AMPA	1.5 hours @ Room Temp in Dark	50mM Tris-HCl pH 7.4 + 2.5mM CaCl2		R, brain		
BZP	Diazepam	Flunitrazepam				R, brain		
Kainate	Glutamic acid	Kainic Acid				R		
Na+ chan.Site II	Veratridine (300uM)	Batrachotoxinin				RB		
NMDA PCP SITE	MK801	MK801				R, brain		
Oxytocin	Oxytocin	Oxytocin				H, cloned		
Alpha 1A	urapidil / Prazosin	Prazosin / 125I-Heat	1hr/25°C	Alpha 1 Buffer	Alpha 1 Buffer	cloned		
Alpha 1B	corynanthine / Prazosin					cloned		
Alpha 1D		3H- Prazosin						
Alpha 2A	oxymetazoline	Clonidine (2nM) / 125I-IodoClonidine	40min/ 25°C	Alpha 2 Buffer	Alpha 2 Buffer	H, cloned		
Alpha 2B	prazosin					H, cloned		
Alpha 2C						H, cloned		
Beta 1	atenolol	Dihydroalprenolol / 125I-Iodopindolol	90min/ 25°C	Beta Buffer	Beta Buffer	H, cloned		
Beta 2	ICI-118,551 / atenolol					H, cloned		
Beta 3***						H, cloned		
Muscarinic 1	Atropine	<sup>3</sup> H-QNB (0.5nM)	1hr/25°C	Muscarinic Buffer	Muscarinic Buffer	H, cloned		
Muscarinic 2						H, cloned		
Muscarinic 3						H, cloned		
Muscarinic 4						H, cloned		
Muscarinic 5						H, cloned		
Nicotinic Alpha2 Beta2		<sup>3</sup> H-Epipatidine				H, cloned		
Nicotinic Alpha2 Beta4							H, cloned	
Nicotinic Alpha3 Beta2							H, cloned	
Nicotinic Alpha3 Beta4							H, cloned	
Nicotinic Alpha4 Beta2							H, cloned	
Nicotinic Alpha4 Beta2**							H, cloned	
Nicotinic Alpha4 Beta4							H, cloned	
Nicotinic Alpha7								
Cannabinoid 1		<sup>3</sup> H]-CP-55,940 (0.5nM)	1hr/30°C	Cannabinoid Buffer	Harvest Buffer	H,Cloned		
Cannabinoid 1	WIN-55,212-2					rat Brain		
Cannabinoid 2	?CB2-selective drug					cloned human		
Sigma 1	haloperidol	<sup>3</sup> H]-(+)-Pentazocine (3nM)	150min/ 37°C	Sigma Buffer	Sigma Harvesting Buffer	GP rat brain		
Sigma 2		<sup>3</sup> H]-DTG 3nM	120min/ 25°C			PC12		
Angiotensin II (AT <sub>1</sub> )	Candesartan	<sup>125</sup> I-[Sar <sup>1</sup> ]-ANGII (0.1nM)	45min/ 22°C	Angiotensin Buffer	Angiotensin Harvesting Buffer	fresh rat kidney		
Angiotensin II (AT <sub>2</sub> )	PD-123,319							
Ca <sup>2+</sup> Channel	nifedipine	<sup>3</sup> H]- Nitrendipine (0.1nM)	ddH <sub>2</sub> O/4°C	Calcium Buffer	Calcium Buffer	rat heart		
Imidazoline 1	naphazoline	125I-clonidine	30min/ 22°C	Imidazoline Buffer	Imidazoline Buffer	PC12		
Neurotensin		<sup>125</sup> I]-Tyr3-NT						

KEY: Human: H Guinea Pig: GP \*\*\* : Developing Assay  
Stable Line: SL Rat: R