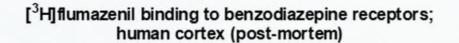
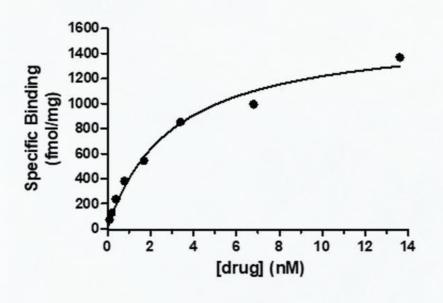
Gifford Bioscience specialize in radioligand binding assays to both recombinant and native receptors in a wide variety of cell and tissue receptor systems.

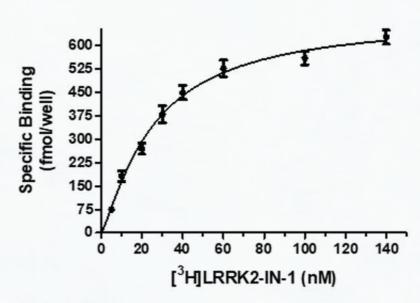
### **SATURATION BINDING**





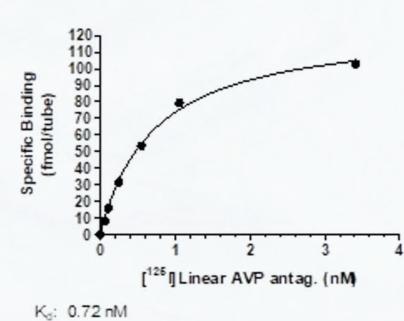
 $K_d$ : 3.2 nM  $B_{max}$ : 1584 fmol/mg

### [<sup>3</sup>H]LRRK2-IN-1 binding to membrane-associated LRRK2 enzyme in rat kidney



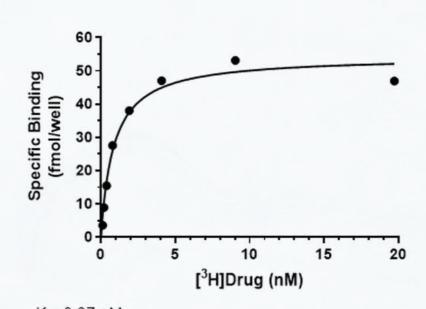
 $K_d$ : 26 ± 3 nM B<sub>max</sub>: 688 ± 35 fmol/well 6.4 ± 0.04 pmol/mg

[126] Linear AVP antagonist binding to vasopressin V1a receptors: rat liver membranes



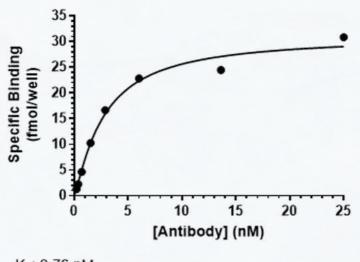
B<sub>max</sub>: 128.9 fmol/tube

[<sup>3</sup>H]SR141716A binding to CB1 receptors; rat cerebellum



K<sub>d</sub>: 0.87 nM B<sub>max</sub>: 54.4 fmol/well (0.79 pmol/mg protein)

#### [<sup>125</sup>l]antibody binding to cell surface antigen sites; SKBR3 cells

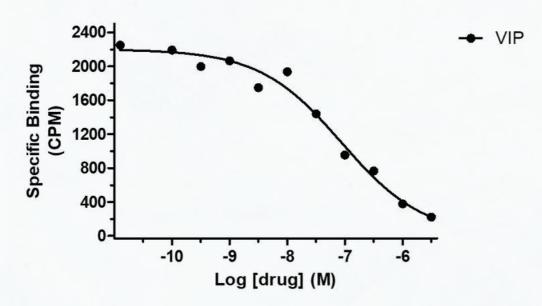


K<sub>d</sub>: 2.76 nM B<sub>max</sub>: 31.1 fmol per well (557,680 sites/cell)

1

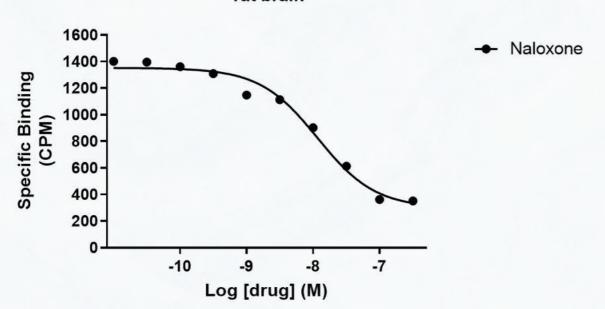
### **COMPETITION BINDING**

[<sup>125</sup>I]VIP binding to VPAC2 receptors; human recombinant



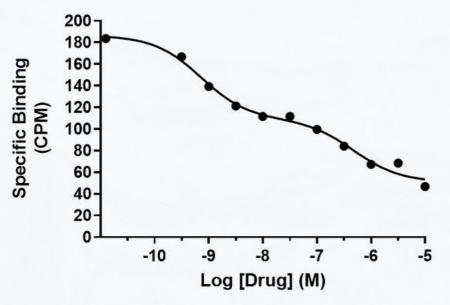
Log IC<sub>50</sub> (M): -7.02

[<sup>3</sup>H]Diprenorphine binding to opioid receptors; rat brain



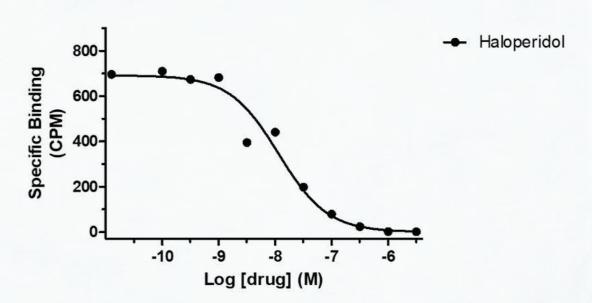
Log IC<sub>50</sub> (M): -7.93

### [<sup>3</sup>H]CGS 21680 Binding to Adenosine A<sub>2a</sub> receptors in Human Caudate-Putamen



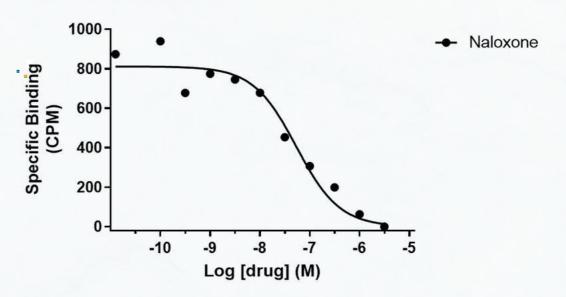
Two site binding Log IC<sub>50</sub> (M): -9.22 (High), -6.52 (Low)

#### [<sup>3</sup>H]Pentazocine binding to sigma 1 receptors; guinea pig brain



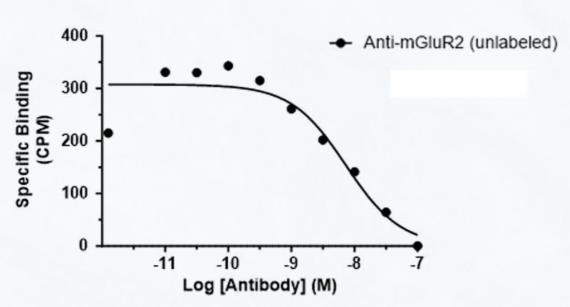
Log IC<sub>50</sub> (M): -7.9

#### [<sup>125</sup>I]Deltorphin binding to opiate receptors; rat brain



Log IC<sub>50</sub> (M): -7.27

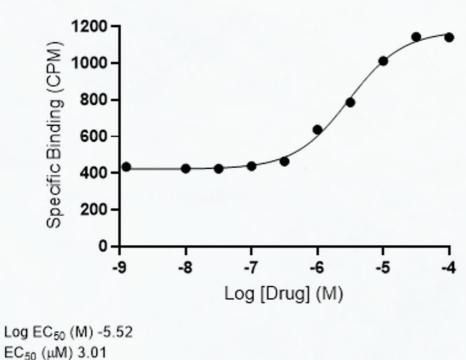
#### [125]]Anti-mGluR2 monoclonal antibody binding to mGluR2 receptors in rat cortex

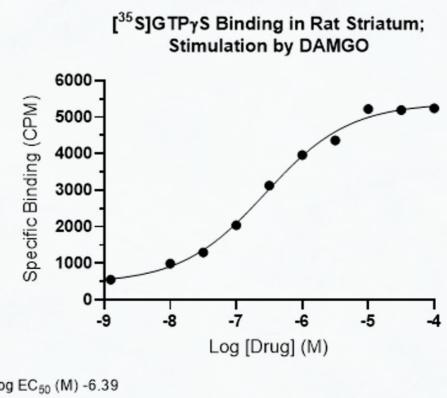


K<sub>d</sub>: 6.85 nM

### STIMULATION [35S]GTPYS BINDING







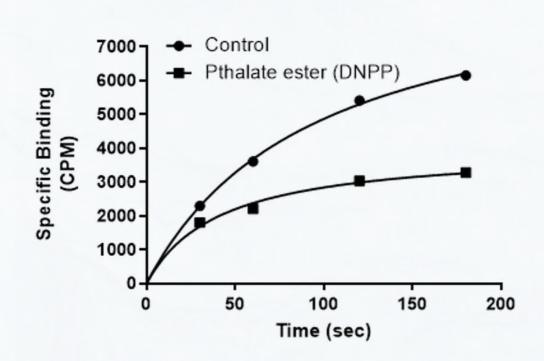
Log EC<sub>50</sub> (M) -6.39 EC<sub>50</sub> (μM) 0.405 E<sub>max</sub> (C.P.M.) 5385

### **KINETICS AND MECHANISM-OF-ACTION**

E<sub>max</sub> (C.P.M.) 1177

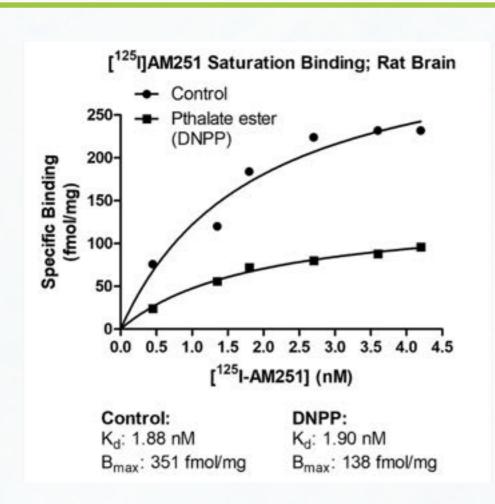
Effect of Di-n-pentyl phthalate (DNPP; 40  $\mu$ M) on association rate, dissociation rate and saturation binding of the cannabinoid ligand [ $^{125}$ I]AM251 in rat brain. The enhanced dissociation rate and lowered Bmax for [ $^{125}$ I]AM251 binding in the presence of the inhibitor is consistent with an allosteric binding site for DNPP on the CB1 receptor:

[125]AM251 Association; Rat Brain

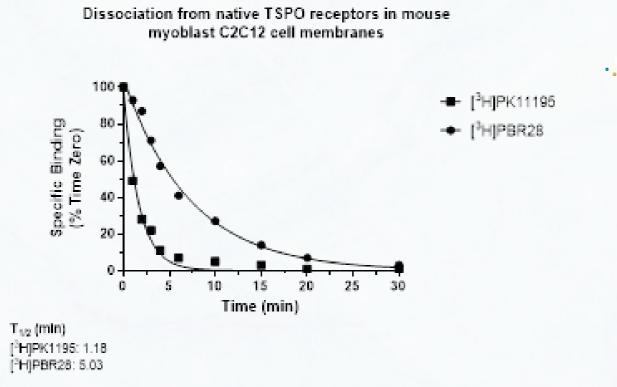


[<sup>125</sup>l]AM251 Dissociation; Rat Brain Control 8000 Pthalate ester (DNPP) 7000 Specific Binding (CPM) 6000 5000 4000 3000 2000 1000 0. 100 50 150 200 Time (sec)

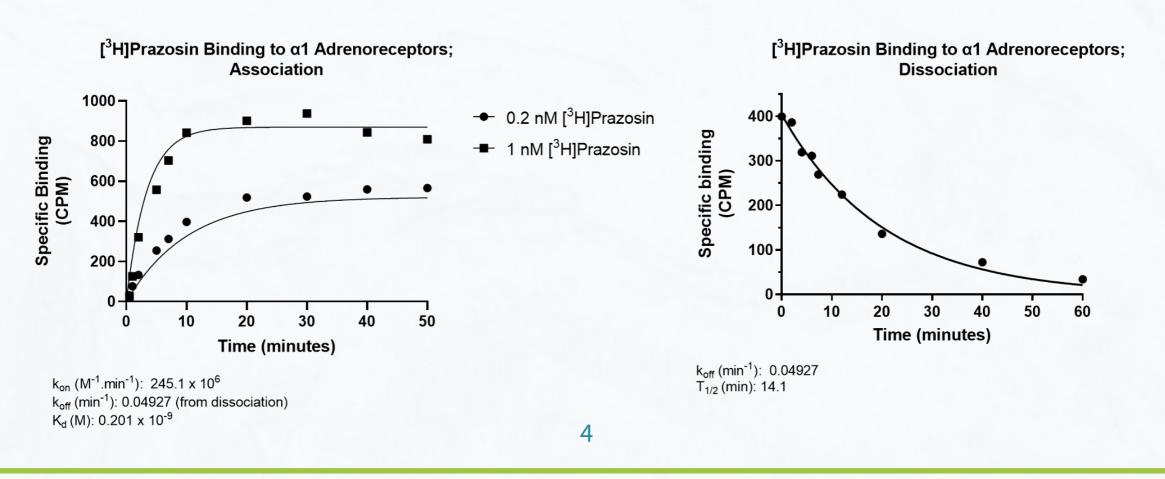
3



Comparison of dissociation rates of two TSPO receptor radioligands in washed membranes from C2C12 cells, measured at 30 °C:



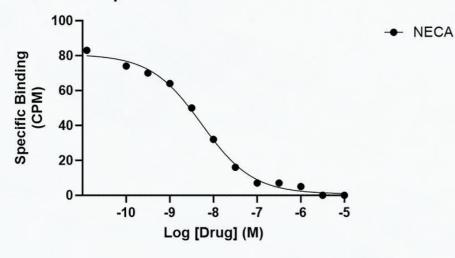
Kinetic assay for [ $^{3}$ H]prazosin binding to pig brain  $\alpha 1$  adrenoreceptors:





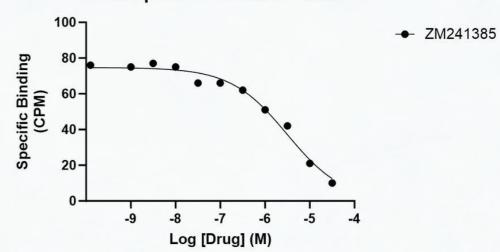
### **SCINTILLATION PROXIMITY ASSAY**

[<sup>3</sup>H]NECA Binding to A<sub>1</sub> Adenosine Receptors (SPA Format); Competition with Unlabeled NECA



Log IC<sub>50</sub> (M): -8.271

#### [<sup>3</sup>H]NECA Binding to A<sub>1</sub> Adenosine Receptors (SPA Format); Competition with ZM241385



Log IC<sub>50</sub> (M): -5.506