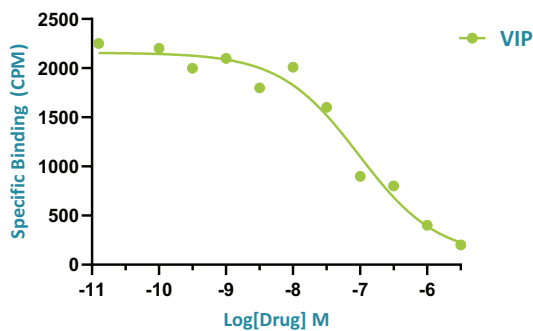


Gifford Bioscience specialise in radioligand binding assays to both recombinant and native receptors in a wide variety of cell and tissue receptor systems.

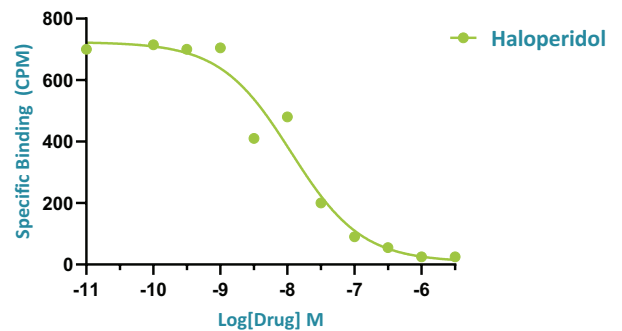
Competition Binding

¹²⁵I]VIP binding to VPAC2 receptors;
human recombinant



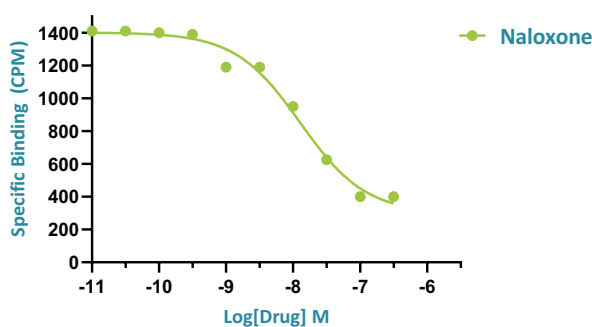
Log IC₅₀ (M): -7.02

³H]Pentazocine binding to sigma 1 receptors;
guinea pig brain



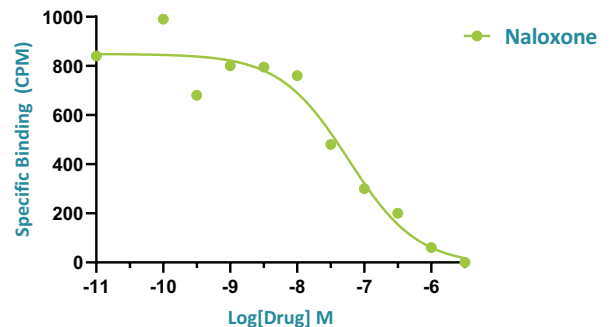
Log IC₅₀ (M): -7.9

³H]Diprenorphine binding to opioid receptors;
rat brain



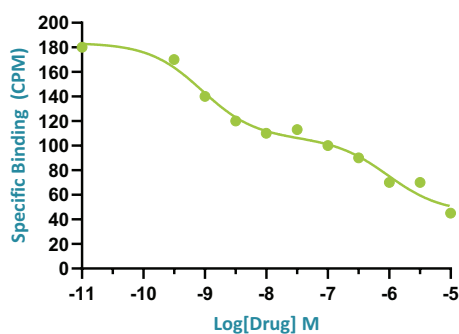
Log IC₅₀ (M): -7.93

¹²⁵I]Deltorphin binding to opioid receptors;
rat brain



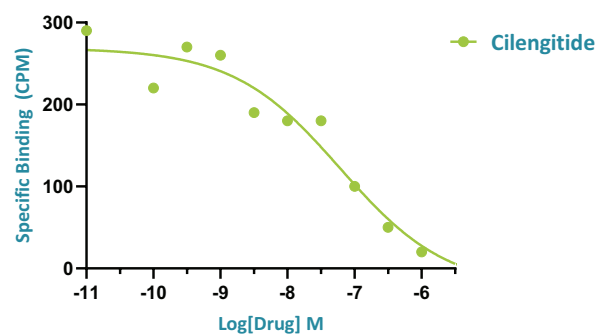
Log IC₅₀ (M): -7.27

³H]CGS 21680 binding to adenosine A_{2a} receptors;
human caudate putamen



Two site binding
Log IC₅₀ (M): -9.22 (High), -6.52 (Low)

¹²⁵I]αVβ6 integrin binding to immobilized
human fibronectin

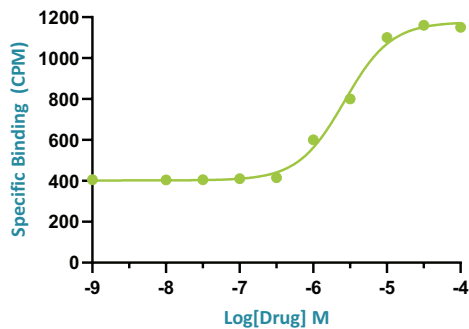


Log IC₅₀ (M): -7.27

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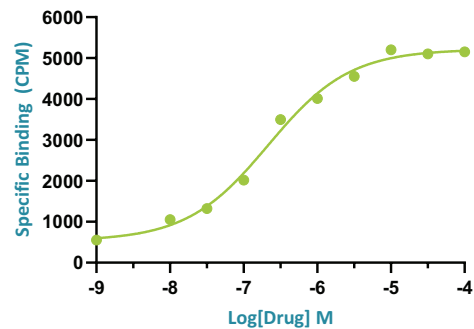
Stimulation [³⁵S]GTPγS Binding

[³⁵S]GTPγS binding in rat brain;
stimulation by acetylcholine



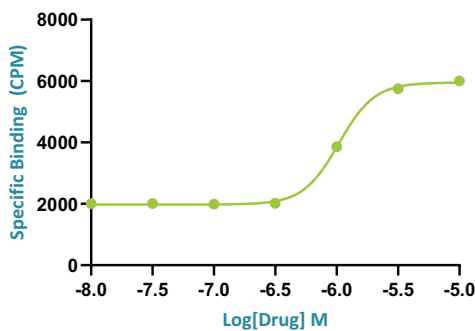
Log EC₅₀ (M): -5.52
EC₅₀ (μM): 3.01
E_{MAX} (CPM): 1177

[³⁵S]GTPγS binding in rat striatum;
stimulation by DAMGO



Log EC₅₀ (M): -5.52
EC₅₀ (μM): 3.01
E_{MAX} (CPM): 1177

[³⁵S]GTPγS binding in rat brain with post-hoc immunoprecipitation step
to selectively measure agonist-stimulated binding to G_{αq} (M2/M4 receptors);
oxotremorine-M

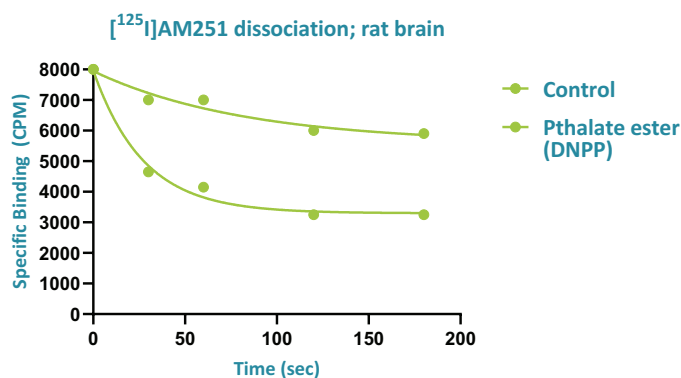
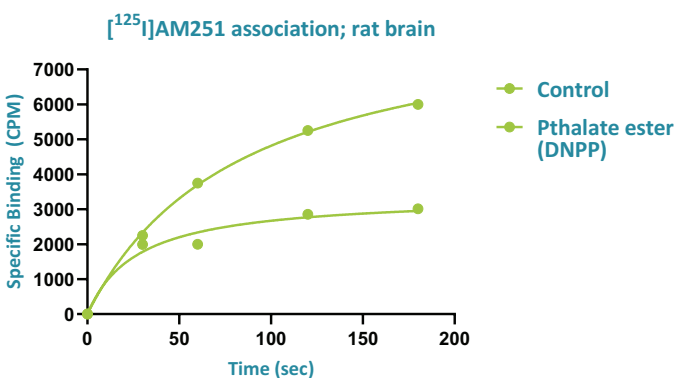


Log EC₅₀ (M): -5.90
EC₅₀ (μM): 1.25
E_{MAX} (CPM): 6023

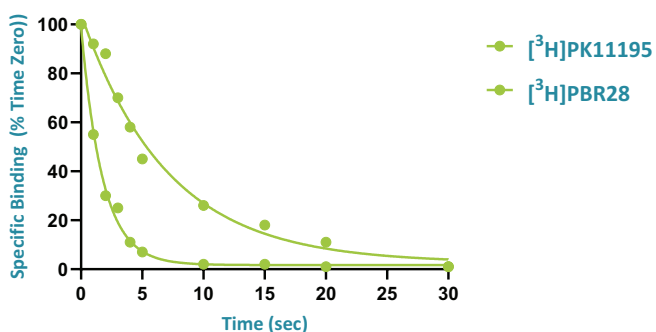
Gifford Bioscience specialise in radioligand binding assays to both recombinant and native receptors in a wide variety of cell and tissue receptor systems.

Kinetics and Mechanism-of-Action

Effect of Di-n-pentyl phthalate (DNPP; 40 μ 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 B_{max} for [125 I]AM251 binding in the presence of the inhibitor is consistent with an allosteric binding site for DNPP on the CB₁ receptor:

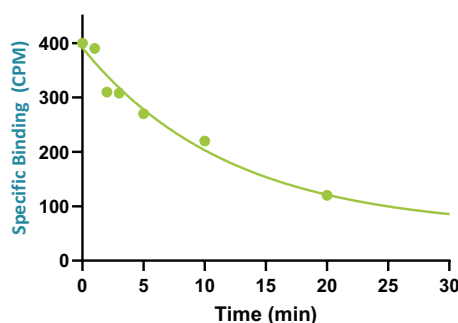


Dissociation from native TSPO receptors in mouse myoblast C2C12 cell membranes



$T_{1/2}$ (min)
 [3 H]PK11195: 1.25
 [3 H]PBR28: 5.03

[3 H]Prazosin binding to α 1 adrenoreceptors; dissociation



$T_{1/2}$ (min)
 [3 H]PK11195: 1.25
 [3 H]PBR28: 5.03