

# Data Sheet

## Radioligand Binding Assay

### Testing Information

#### Required from Customer

- Study design.
- Molecular weight for each compound to be tested.
- Minimum of 0.4 mg of powder or 0.1 ml of 10 mM solution in DMSO.
- Information on solubility and stability (if available). Standard solubilization is a 10 mM stock solution in DMSO for small molecules or a 1 mg/ml solution in buffer for proteins, followed by dilution with assay buffer.
- For live cell assays, the frozen or cultured live cells (if not available commercially).

#### Deliverables

- Graphical plot and  $IC_{50}$ ,  $K_i$ ,  $K_d$  or kinetic constants for each compound.
- Excel spreadsheet of raw and analyzed C.P.M. values.
- Description of methods employed.

#### Standard study designs

- *Competition experiments:* 10 concentrations of the test article over a 6 log unit range (e.g. 0.1 nM to 10,000 nM), in duplicate.
- *Saturation experiments:* 8 concentrations of the test article over a two-log unit range (e.g. 0.25 nM to 20 nM), in duplicate.
- *Kinetic experiments:* 8 time points over a 60 minutes time period, in duplicate.

#### Turnaround Times

Turnaround times are between one to three weeks, once samples and materials have been received and sufficient cells grown.

#### Pricing Structure

Based on the number of wells or data points per assay, with a discounted cost per well for larger studies. Our minimum order size is 48 wells (one test and one reference compound).