Data Sheet
Functional GPCR Assay
Testing Information

Required from Customer

- Study design including target receptor.
- Membranes, cells or plasmids for expression of target receptor(s).
- Minimum of 0.4 mg of powder or 0.1 ml of 10 mM solution in DMSO for each compound to be tested.
- Molecular weight for each compound.
- Information on solubility and stability for each compound (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.

Deliverables

- Graphical plot and EC_{50} or IC_{50} for each compound.
- Excel spreadsheet of raw and analyzed TR-FRET values.
- Description of methods employed.

Standard Study Processes

- Optimization: Cell number/membrane concentration and drug stimulation time.
- Dose-response experiments (agonist): 8 concentrations of the test article over a suitable concentration range (eg. 10 pM to 100 µM), in triplicate.
- Dose-response experiments (antagonist): 8 concentrations of the test article over a suitable concentration range (eg. 10 pM to 100 µM) in the presence of an agonist at EC_{80} concentration, in triplicate.

Turnaround Times

Turnaround times are between two to three weeks, once samples and materials have been received.

Pricing Structure

Based on the number of receptor(s), compounds and concentrations per assay, with a discounted cost per sample for larger studies. Our minimum order size is 24 samples (one receptor + 8 compound concentrations in triplicate.

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