

# Discovery Biology Services

Pharmaron biology provides a broad spectrum of high quality services to support various stages of drug discovery and development. With state-of-the-art facilities and instrumentation, we offer services in assay development, compound profiling, custom reagents, biomarkers, and *in vitro* safety. We have a team of highly experienced scientists that are familiar with drug discovery processes. Our staff understands how and where biology services can help our clients succeed in target validation, hit identification, hit-to-lead, lead optimization and selection of preclinical candidates. These services are provided as stand-alone services or as a part of integrated projects that also include components such as medicinal chemistry, DMPK, pharmacology and toxicology.



## Assay Development

- Focus on major target classes : GPCRs, kinases, nuclear receptors, and selected ion channels
- Enzyme/biochemical assays, cell-based assays, and cellular phenotypic assays to provide full assay solutions
- Shelf-ready assay option or custom assay development option or option to use assays developed by clients
- Available radiometric assay option : licensed in H3, I125, S35, P32, P33, C14

## Compound Profiling

- 96 and 384 - well formats with liquid handling systems
- Fast data turnaround to expedite SAR development

## Cell-Based Assays

- Standard cell-based assays (Fluor, bla, etc.)
- Cell-based assays tailored to various research areas (Cell invasion, cell adhesion, etc.)

## Biomarkers

- ELISA
- Western blot
- Luminex
- LC/MS
- qPCR/Taqman

## Custom Reagents

- Stable cell-line generation with comprehensive assay validation
- Protein expression and purification
- One-stop shop for reagent characterization : Molecular cloning, full characterization at gene, protein and functional levels

## *In vitro* Toxicity

### Genotoxicity

- AMES: 4-5 strains
- HPRT
- Comet
- *In vitro* chromosome aberration
- *In vitro* micronucleus

### Cytotoxicity (MTT, MTS, XTT)

### Cardiac safety (hERG assays)

- Manual Patch-clamp electrophysiology
- Cell-based fluorescence assays (FluxOR or Membrane potential)

## Contact Us

For more information on how Pharmaron can assist with your drug discovery & development programs with speed and efficiency in a cost-effective and quality manner, please contact us.