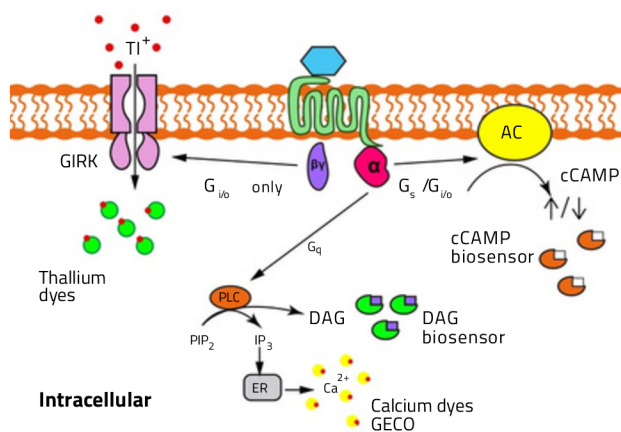


Real-time sensors for dynamic compound profiling of G_q , $G_{i/o}$, and G_s coupled receptors to discover agonists, antagonists, and allosteric modulators. Powered by in-house assay platforms and state-of-the-art instrumentation for unparalleled insights to accelerate your discovery programs.

The human genome encodes ~800 GPCRs central to neurotransmission, sensation, immunity, hormonal regulation, and more. GPCRs are also the largest druggable family with 36% of FDA-approved drugs targeting them.

Extracellular



Functional Assays

- G_q : Calcium & DAG sensors that span the visible spectrum
- G_s : cAMP biosensor (cADDIs from Montana Molecular)
- $G_{i/o}$: cAMP biosensor (cADDIs), $G_{i/o}$ -mediated GIRK activation assay using our **Brilliant Thallium** and **Thallium-free GIRK Potassium Channel Assay**

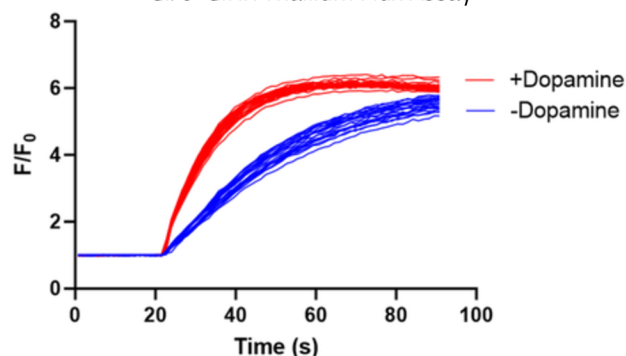
What sets us apart

- Multiplexed readouts to decode biased agonism
- Validation using orthogonal assays
- Dual addition protocols for antagonists and allosteric modulator discovery
- Washout assays for ligand dissociation profiling
- Maximum flexibility to select sensors that fit your system

$G_{i/o}$ -GIRK Assay

- Transient GPCR expression in a stable GIRK channel cell line for fast assay turnaround times
- Larger signal windows and Z' compared to cAMP assays for $G_{i/o}$ GPCRs
- Native coupling mechanism with real-time agonism detection without the need for artificial cAMP elevation
- Numerous G_i -coupled receptors ready to screen
- Platform validated using automated electrophysiology (in collaboration with Nanion Technologies)

D2 Dopamine Receptor agonism using $G_{i/o}$ -GIRK Thallium Flux Assay



Tell us your target—we'll tailor a solution.

Explore more at: www.ionbiosciences.com

Contact: sales@ionbiosciences.com