

# *In Vitro* Pharmacology



At Aragen, we offer a panel of validated In Vitro pharmacological assays that cover a broad range of targets. Apart from ascertaining the potency of the NCE on target, assays are also available for selectivity screening and profiling. While working closely with the customers, the team provides solutions ranging from Reagent Generation, Assay Development and Validation to High Throughput Screening. The cornerstone of our In Vitro pharmacology is broad expertise in target-specific molecular interactions along with state-of-the-art technology platforms.

## **Primary Pharmacology**

### **A. Target Class**

- Enzymes
- GPCRs
- Transporters
- Ion channels

### **B. Screening Platforms**

- Quantitative RT-PCR (Quantstudio 6 Flex)
- Absorbance/Luminescence/Fluorescence (HTRF/FP/TR-FRET/ALPHALISA)
- Radioactive assays (32P, 3H, 14C)
- FLIPR-based screening
- HTMS (Rapid Fire System)

- Flow cytometry (BD FACSVerser)
- SPR (Biacore T200)
- Manual Patch Clamp (Axon)
- Western Blotting (ProteinSimple)
- Multiplexed Detection (MAGPIX)
- Next Gen Sequencing (Ion Torrent S5)
- High Content Screening (Cellinsight Cx7)
- Nanoliter Acoustic liquid handler (ECHO 550)
- High Throughput Compound Screening

### **C. Model Systems**

- Cell lines
- Normal primary cells
- Primary immune cell subtypes
- Patient-derived primary cells
- Stem cells
- 3D cell culture

### **Reagent Generation**

- Gene synthesis
- Cloning/sub-cloning
- E.coli expression
- Baculovirus expression
- Yeast expression
- Mammalian expression (CHO/HEK)
- Lentiviral expression
- Tagged/Untagged/ Radiolabeled protein production
- Transient/Stable cell line generation
- Membrane and Microsomal proteins
- Stem cells iPSC

Let's begin the  
Conversation

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