

# CDAS | PDESCreen

## Human Targets with Caliper's LabChip Platform

Phosphodiesterase enzymes are a unique family of enzymes and as such have recently been recognized as new target classes in drug discovery. They regulate the amplitude and duration of responses triggered by the second messengers, cAMP and cGMP. In doing so, they regulate a wide range of biological responses triggered by light, hormones, neurotransmitters and odorants.

Caliper Discovery Alliances & Services' (CDAS) PDESCreen represents 11 of the 12 PDE classes and 12 of the 21 PDE genes. Using all human targets coupled with Caliper's proven LabChip platform, you will receive nothing but high quality data in 2 weeks or less.

### Available PDE's

PDE ASSAYS	RELATED DISEASE AREA
PDE1A	Fertility, Inflammation, Olfaction
PDE2A	Heart disease, Anti-angiogenesis
PDE3A	Obesity, restinosis, diabetes
PDE4A1	Depression and memory
PDE4B1	Depression and memory
PDE4D2	Airway inflammation, arthritis, learning, stroke, PD, leukemia
PDE5 A1	ED, pulmonary hypertension, migraine
PDE7A1	Unknown
PDE8A1	Hyperthyroidism, metabolic bone disease
PDE9A2	Fertility
PDE10A1	PD, OCD, addictions
PDE11A4	Fertility

### PDESCreen Services - 4 Offerings

#### PDESCreen PROFILEing

- Extensive panel of 12+ human PDE assays
- Rapid turn around time in only two weeks or less!

#### PDESCreen IC<sub>50</sub>

- Compound inhibitor potency determined in your selection of PDE assays

#### PDESCreen Mechanism of Action (MOA)

- Understand the manner in which your compounds interact with enzymatic targets

#### PDESCreen HTS

- Customized screening projects to meet your clients' expectations of throughput, process and workflow

### *PDESCreen Advantage*

- All Human
- Broad PDE Coverage
- Low Sample Usage
- Availability of Real Time Kinetics - MOA
- High Quality Data
- Substrate Concentrations Close to K<sub>m</sub>