

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 all 11 families and 15 of the 24 genes. Using all human targets coupled with Caliper's proven LabChip platform.

Available PDE's

PDE ASSAYS	RELATED DISEASE AREA
PDE1A	Fertility, Inflammation, Olfaction
PDE1B	Fertility, Inflammation, Olfaction, CNS
PDE2A	Heart Disease, Anti-Angiogenesis, CNS
PDE3A	Obesity, Restinosis, Diabetes
PDE3B	Obesity, Restinosis, Diabetes
PDE4A1	Depression and Memory, CNS
PDE4B1	Depression and Memory, CNS
PDE4D2	Airway Inflammation, Arthritis, Learning, Stroke, PD, Leukemia, CNS
PDE4D3	Airway Inflammation, Arthritis, Learning, Stroke, PD, Leukemia, CNS
PDE5A1	ED, Pulmonary Hypertension, Migraine, CNS
PDE6C	Retinal Degradation, CNS
PDE7A	Unknown
PDE8A1	Hyperthyroidism, Metabolic Bone Disease, CNS
PDE9A2	Fertility, CNS
PDE10A2	PD, OCD, Addictions, CNS
PDE11A	Fertility

PDEScreen Services - 4 Offerings

PDEScreen PROFILEing

- Extensive panel of 16 human PDE assays

PDEScreen IC₅₀

- 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
- MOA for Availability of Real Time Kinetics – MOA studies
- High Quality Data
- Substrate Concentrations Close to K_m