MULTISPAN
Assay Experts in GPCRs and Beyond

32-GPCR Safety/Liability Functional Assay Panel

Purpose	• To identify compound liabilities • Profiling hits, leads and new chemotypes in a well-defined 32-GPCR assay panel implicated in central nervous system, cardiac, pulmonary and gastrointestinal safety/liability concerns. • Using cellular functional assays avoiding binding assay limitations for allosteric or non-functional binders and to remove binding false positives.
Scope	• Customer may submit compounds with instructions on handling, solubility, and storage. • Multispan shall profile compounds by FLIPR in Ca^{++} assays in: agonist and antagonist modes, single point duplicates or 10-point duplicate dose-response curves according to the customer's requirements
Timing	• On the 1st workday of each month, run the assay panel with compounds submitted by the customer up to the last workday of the previous month. • On the 4th workday of each month, analyzed and raw data will be communicated via email and uploaded into a database as specified by the customer. • Screens shall be performed once a month. Special scheduling arrangement can be discussed.
Targets	See table below
Data Quality	• One control agonist shall be run for each target. • CV< 10% and EC50 value of the control compound DRC from run to run shall not exceed $10^{1/2}$. • Any questionable data shall be repeated at no additional charge.

Family	Receptor
Adenosine	A2A
	A3
Adrenergic	alpha1A
	alpha1D
	alpha2A
	alpha2B
	alpha2C
	beta1
	beta2
Angiotensin	AT1
Cannabinoid	CB1
Cholecystokinin	CCK1
Dopamine	D1
	D2
Histamine	H1
	H2
Endothelin	ETA
Muscarinic	M1
	M2
	M3
Opioid	delta
	kappa
	mu
Serotonin	5-HT1A
	5-HT1B
	5-HT2A
	5-HT2B
	5-HT2C
	5-HT4
	5-HT6
	5-HT7
Vasopressin	V1A