

SAFETYscan 47

Functional Assays with Human Targets

Eurofins Discovery's **SAFETYscan®47** panel supports all stages of drug discovery, and facilitates research in food, cosmetics, and industrial chemicals.

SAFETYscan 47 Highlights:

VOLUME



**Economy of Scale
with volume discounts
up to 40%**

PRICE



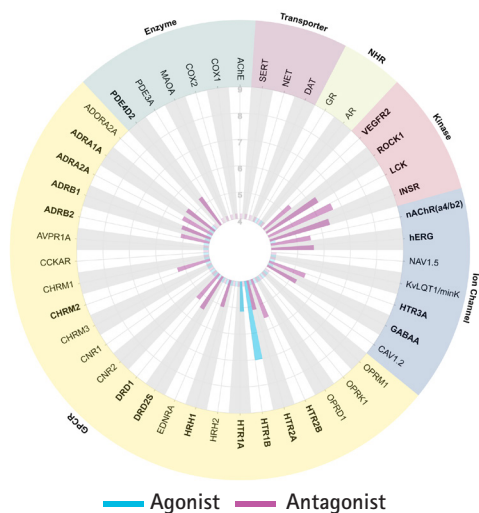
In vitro screening within the New Approach Methodology (NAM) frame-work, to assess chemical-related risk to human health.

Dose response mode with agonist and antagonist assays, for potency measurements and mechanism-of-action assessments on human targets.

Early hazard identification and off-target mitigation to prioritize drug candidates before costly *in vivo* studies.

Introducing SAFETYscan 47 DataViz:

SAFETYscan 47 DataViz is a complementary, customizable and interactive dashboard enabling a personalized customer experience to extract, visualize, and communicate relevant results from their **SAFETYscan 47** screen.



Class	Family	Target	Human Assay
GPCR	Adenosine	ADORA2A*	Functional
	Adrenergic	ADRA1A*	Functional
		ADRA2A*	Functional
		ADRB1*	Functional
		ADRB2*	Functional
	Cannabinoid	CNR1*	Functional
		CNR2*	Functional
	Cholecystokinin	CCKAR*	Functional
	Dopamine	DRD1*	Functional
		DRD2S*	Functional
	Endothelin	EDNRA*	Functional
	Histamine	HRH1*	Functional
		HRH2*	Functional
	Opioid & Opioid-Like	OPRD1*	Functional
		OPRK1*	Functional
		OPRM1*	Functional
Transporter	Muscarinic	CHRM1*	Functional
		CHRM2*	Functional
		CHRM3*	Functional
	Serotonin	HTR1A*	Functional
		HTR1B*	Functional
		HTR2A*	Functional
		HTR2B*	Functional
	Vasopressin	AVPR1A*	Functional
	Dopamine	DAT*	Functional
	Norepinephrine	NET*	Functional
Nuclear Receptor	Serotonin	SERT*	Functional
	Steroid	AR*	Functional
Ion Channel		GR	Functional
	GABA	$\alpha_1\beta_2\gamma_2$ GABA _A *	Functional
	Glutamate	NMDAR (1A/2B)*	Functional
	Nicotinic	$\alpha_4\beta_2$ -nAChR*	Functional
	Serotonin	5-HT _{3A} *	Functional
	Calcium	Ca _v 1.2 (L-type) *	Functional
	Sodium	Na _v 1.5 *	Functional
Non-Kinase Enzyme	Potassium	hERG*	Functional
		KvLQT1/minK*	Functional
	Lipid Metabolism	COX1*	Enzyme
		COX2*	Enzyme
	Neurotransmitter Metabolism	AChE*	Enzyme
Kinase		MAOA*	Enzyme
	Phosphodiesterase	PDE3A*	Enzyme
		PDE4D2*	Enzyme
	Tyrosine	INSR*	Binding
		LCK*	Binding
	Serine/Threonine AGC	VEGFR2	Binding
		ROCK1*	Binding

Targets endorsed by Bowes et al. *Nature Reviews*
<https://doi.org/10.1038/nrd3845> including

*Targets recommended by the *International DruSafe Consortium*
<https://doi.org/10.1038/s41573-024-00993-6>

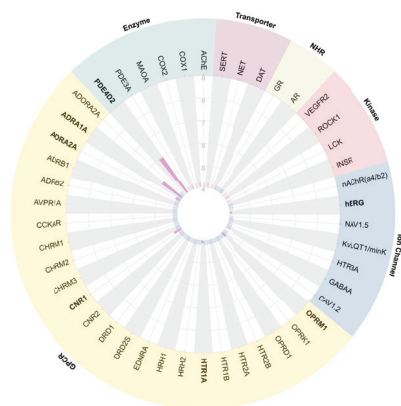
To learn more about Eurofins Discovery's Safety Pharmacology Panels, visit eurofinsdiscovery.com/solution/safety-pharmacology

SAFETYscan47 DataViz



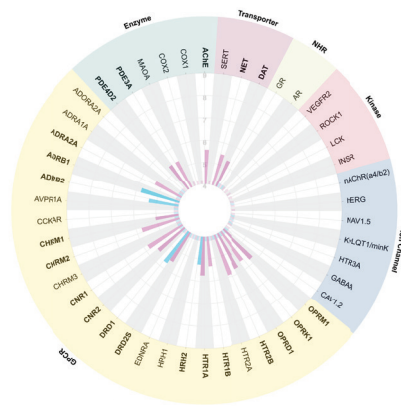
Eurofins Discovery's SAFETYscan[®]47 DataViz is a complementary, customizable and interactive dashboard designed to extract, visualize, and communicate SAFETYscan47 *in vitro* safety pharmacology results. Key features include:

Radial Barplot Visualization of hits across SAFETYscan47 panel targets and comparison to clinical compound profiles



— Agonist — Antagonist

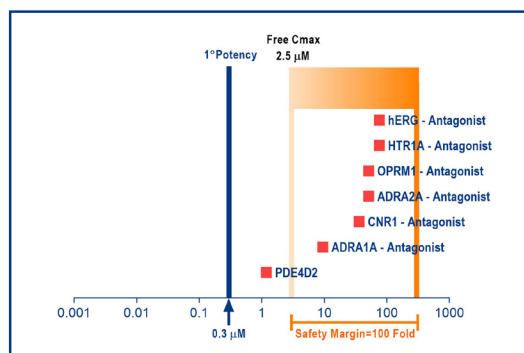
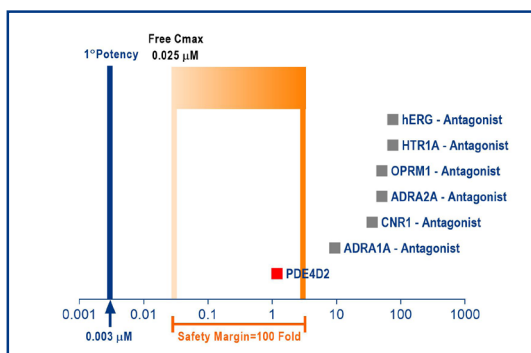
A. Test Compound



— Agonist — Antagonist

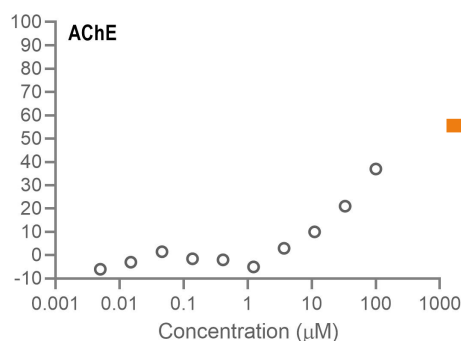
B. Correlative Compound

Safety Margin Analysis for identification of potential off-targets

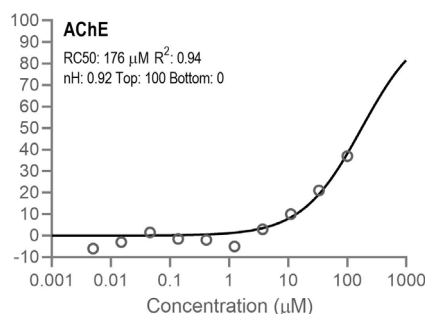


Test compounds with user defined criteria

User-Defined Curve Fitting Parameters for custom EC₅₀/IC₅₀ calculation



Default curve fit



User-defined curve fit