

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.

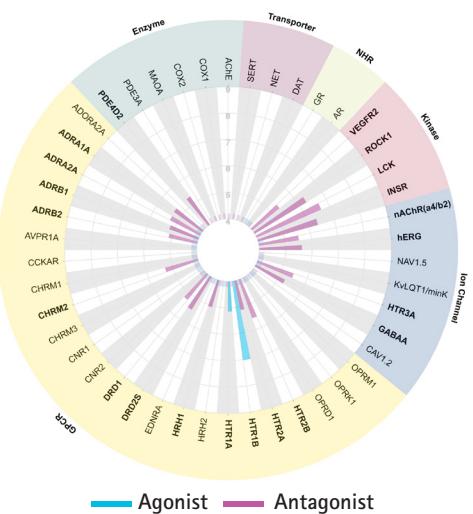
Dose response mode with agonist and antagonist assays, for potency measurements and mechanism-of-action assessments on human targets.

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	
		ADRA1A*	Functional	
		ADRA2A*	Functional	
		ADRB1*	Functional	
		ADRB2*	Functional	
		CNR1*	Functional	
		CNR2*	Functional	
		Cholecystokinin	CCKAR*	Functional
		Dopamine	DRD1*	Functional
			DRD2*	Functional
		Endothelin	EDNRA*	Functional
		Histamine	HRH1*	Functional
			HRH2*	Functional
	Opioid & Opioid-Like	OPRD1*	Functional	
		OPRK1*	Functional	
		OPRM1*	Functional	
Transporter		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	α ₂ γ ₂ GABA _A *	Functional	
	Glutamate	NMDAR (1A/2B)*	Functional	
	Nicotinic	α ₄ β ₂ -nAChR*	Functional	
	Serotonin	5-HT _{3A} *	Functional	
	Calcium	Ca _{1.2} (L-type) *	Functional	
	Sodium	Na _V 1.5 *	Functional	
	Potassium	hERG*	Functional	
		KvLQT1/minK*	Functional	
	Lipid Metabolism	COX1*	Enzyme	
Non-Kinase Enzyme		COX2*	Enzyme	
		AChE*	Enzyme	
		MAOA*	Enzyme	
	Phosphodiesterase	PDE3A*	Enzyme	
Kinase		PDE4D2*	Enzyme	
		INSR*	Binding	
	Tyrosine	LCK*	Binding	
		VEGFR2	Binding	
	Serine/Threonine AGC	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

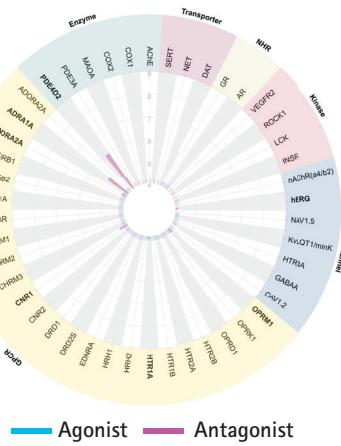
 eurofinsdiscovery.com/solution/safety-pharmacology



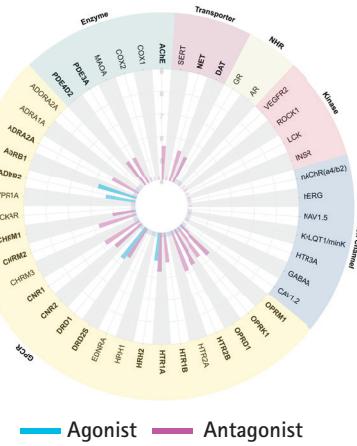
SAFETYscan 47 DataViz

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

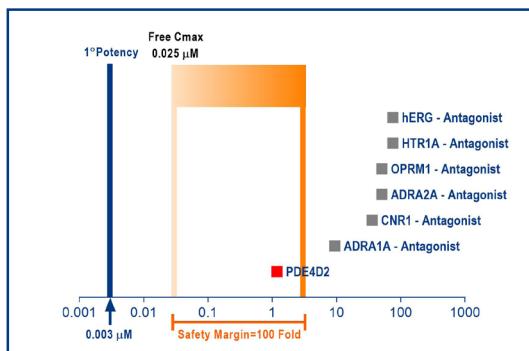


A. Test Compound

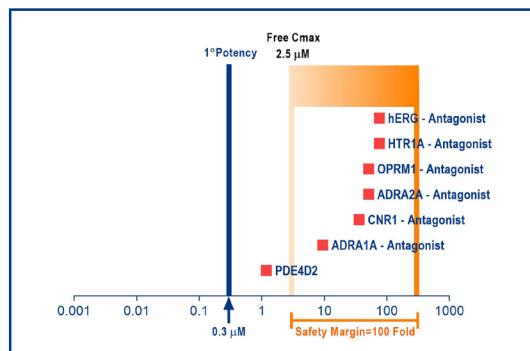


B. Correlative Compound

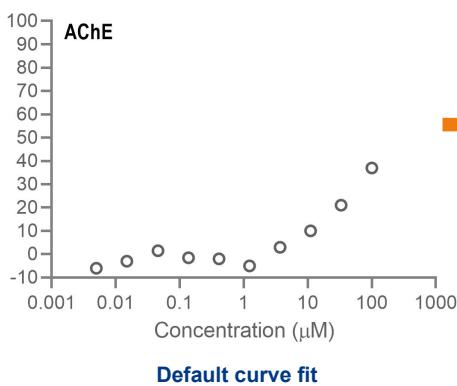
Safety Margin Analysis for identification of potential off-targets



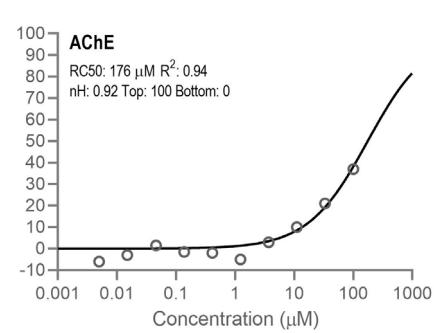
Test compounds with user defined criteria



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



Default curve fit



User-defined curve fit

To learn more about Eurofins Discovery's new SAFETYscan47 DataViz, visit eurofinsdiscovery.com/solution/safetyscan47-dataviz