Oroxin A

Cat. No.:	HY-N2025			
CAS No.:	57396-78-8			
Molecular Formula:	$C_{21}H_{20}O_{10}$			HO
Molecular Weight:	432.38			но" ү "он ү ү
Target:	Glucosidas	e; PPAR		OH O
Pathway:	Metabolic E Receptor	inzyme/P	rotease; Cell Cycle/DNA Damage; Vitamin D Related/Nuclear	
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.3128 mL	11.5639 mL	23.1278 mL			
		5 mM	0.4626 mL	2.3128 mL	4.6256 mL			
		10 mM	0.2313 mL	1.1564 mL	2.3128 mL			
	Please refer to the so	ubility information to select the app	propriate solvent.					
n Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.81 mM); Clear solution						
		one by one: 10% DMSO >> 90% (20 ng/mL (4.81 mM); Clear solution	% SBE-β-CD in saline)					

BIOLOGICAL ACTIVITY				
Description	Oroxin A is the major component of an ethanol-water Oroxylum indicum (L.) Kurz (Bignoniaceae) seed extract (OISE). Oroxin A acts as a partial PPARγ agonist that can activate PPARγ transcriptional activation. Oroxin A activates PPARγ by docking into the PPARγ protein ligand-binding domain. Oroxin A also exhibits an inhibitory activity against α-glucosidase and an antioxidant capacity ^[1] . Oroxin A exerts anti-breast cancer effects by inducing ER stress-mediated senescence ^[2] .			
IC ₅₀ & Target	ΡΡΑRγ			
In Vitro	Oroxin A (0.5- 100 μ M; 24 hours) significantly increases the PPAR γ transcription level and exhibits the strongest activation with 50 μ M in HEK-293t cells ^[1] .			

Product Data Sheet



MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sun W, et al. Oroxin A from Oroxylum indicum prevents the progression from prediabetes to diabetes in streptozotocin and high-fat diet induced mice. Phytomedicine. 2018 Jan 1;38:24-34.

[2]. He J, et al. Oroxin A inhibits breast cancer cell growth by inducing robust endoplasmic reticulum stress and senescence. Anticancer Drugs. 2016 Mar;27(3):204-15.

Caution: Product has not been fully validated for medical applications. For research use only.

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