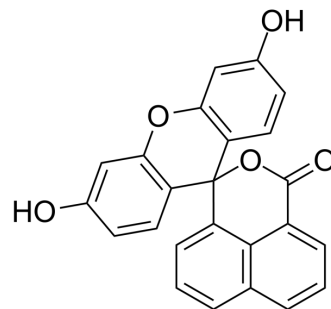


Resorcinolnaphthalein

Cat. No.:	HY-122445		
CAS No.:	41307-63-5		
Molecular Formula:	C ₂₄ H ₁₄ O ₅		
Molecular Weight:	382.36		
Target:	Angiotensin-converting Enzyme (ACE)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (261.53 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6153 mL	13.0767 mL	26.1534 mL
		5 mM	0.5231 mL	2.6153 mL	5.2307 mL
10 mM		0.2615 mL	1.3077 mL	2.6153 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (5.44 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (5.44 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.44 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Resorcinolnaphthalein is a specific angiotensin-converting enzyme 2 (ACE2) enhancer and activates ACE2 activity with an EC ₅₀ value of 19.5 μM. Resorcinolnaphthalein can be used for the investigation of hypertension and renal fibrosis ^[1] .
IC₅₀ & Target	EC50: 19.5 μM (ACE2) ^[1]
In Vitro	Resorcinolnaphthalein (100 μM) and XNT enhances ACE2 activity in a dose-dependent manner with EC ₅₀ values of 19.5 μM and 20.1 μM, respectively ^[1] .

ACE2 is an effective enzyme in attenuating fibrosis and structural remodeling. Enhancement of ACE2 activity has beneficial effects on the cardiovascular system and protects against hypertension induced pathophysiology^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hernández Prada JA, et al. Structure-based identification of small-molecule angiotensin-converting enzyme 2 activators as novel antihypertensive agents. *Hypertension*. 2008 May;51(5):1312-7.

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

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