

## Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

## Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# **PRODUCT** INFORMATION



Resorcinolnaphthalein

Item No. 13082

CAS Registry No.:	41307-63-5	
Formal Name:	3',6'-dihydroxy-spiro[1H,3H-	HUUUUH
	naphtho[1,8-cd]pyran-1,9'-[9H]	
	xanthen-3-one	
Synonym:	NSC 354317	
MF:	$C_{24}H_{14}O_5$	
FW:	382.4	
Purity:	≥98%	
Stability:	≥2 years at -20°C	
Supplied as:	A crystalline solid	
UV/Vis.:	λ <sub>max</sub> : 216, 278 nm	<u>~</u>

#### Laboratory Procedures

For long term storage, we suggest that resorcinolnaphthalein be stored as supplied at -20°C. It should be stable for at least two years.

Resorcinolnaphthalein is supplied as a crystalline solid. A stock solution may be made by dissolving the resorcinolnaphthalein in an organic solvent purged with an inert gas. Resorcinolnaphthalein is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of resorcinolnaphthalein in these solvents is approximately 20 mg/ml.

Resorcinolnaphthalein is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, resorcinolnaphthalein should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Resorcinolnaphthalein has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

#### Description

Angiotensin-converting enzyme 2 (ACE2) is an enzyme that is cardioprotective and renoprotective. Resorcinolnaphthalein increases the activity of ACE2 in vitro (EC<sub>50</sub> = 19.5 µM).<sup>1</sup> Activation of ACE2 in rats produces a decrease in blood pressure and improvement in cardiac function. In spontaneously hypertensive rats it produces a reversal of myocardial, perivascular, and renal fibrosis.<sup>1</sup>

#### Reference

1. Prada, J.A.H., Ferreira, A.J., Katovich, M.J., et al. Structure-based identification of small-molecule angiotensin-converting enzyme 2 activators as novel antihypertensive agents. Hypertension 51, 1312-1317 (2008).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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