

Produktinformation



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Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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PRODUCT INFORMATION



Lotusine

Item No. 35136

CAS Registry No.:	6871-67-6	
Formal Name:	(1R)-1,2,3,4-tetrahydro-6-hydroxy-1-[(4-hydroxyphenyl)	
	methyl]-7-methoxy-2,2-dimethyl-isoquinolinium	OH
Synonym:	(-)-Lotusine	
MF:	C ₁₉ H ₂₄ NO ₃	
FW:	314.4	ý v
Purity:	≥98%	
UV/Vis.:	λ _{max} : 230 nm	
Supplied as:	A solid	
Storage:	-20°C	HO VI
Stability:	≥2 years	
Item Origin:	Plant/Nelumbo nucifera	

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Lotusine is supplied as a solid. A stock solution may be made by dissolving the lotusine in the solvent of choice, which should be purged with an inert gas. Lotusine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of lotusine in these solvents is approximately 3, 10, and 5 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of lotusine can be prepared by directly dissolving the solid in aqueous buffers. The solubility of lotusine in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Lotusine is an alkaloid that has been found in N. nucifera and has diverse biological activities.¹⁻³ It increases the level of cAMP in rat myocardium when used at concentrations ranging from 0.1 to 3 μ M and the levels of cGMP in rabbit corpus cavernosum in a concentration-dependent manner.² Lotusine prevents lipid peroxidation induced by doxorubicin (Item No. 15007) in H9c2 embryonic rat cardiomyocytes.¹ It also increases left ventricular pressure (LVP), left ventricular end diastolic pressure (LVEDP), and systolic arterial blood pressure (SAP) in anesthetized rats when administered at a dose of 5 mg/kg.³

References

- 1. Harishkumar, R. and Selvaraj, C.I. Lotusine, an alkaloid from Nelumbo nucifera (Gaertn.), attenuates doxorubicininduced toxicity in embryonically derived H9c2 cells. In Vitro Cell. Dev. Biol. Anim. 56(5), 367-377 (2020).
- 2. Zhao, Z., Zhang, Y., Yu, X., et al. Effects of lotusine on cyclic nucleotide levels and contractile function in rat myocardium and rabbit corpus cavernosum. Zhongguo Yaolixue Yu Dulixue Zazh 16(3), 202-205 (2002).
- 3. Wang, J., Zhao, Z., Zhang, F., et al. Effect of lotusine on hemodynamics in rat and canine. Zhongcaoyao 30(11), 838-340 (1999).

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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