

## (+/-)-Rhododendrol

## Chemical Properties

CAS No. :	69617-84-1
Formula:	C10H14O2
Molecular Weight:	166.22
Storage:	Store under nitrogen, Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	(+/-)-Rhododendrol, is an aromatic compound that may be useful in hepatic disease research contexts. (+/-)-Rhododendrol, is a known pro-oxidant that can be toxic to melanocytes and is therefore used in oxidative stress and melanocyte biology research systems to investigate redox imbalance, cellular toxicity mechanisms, and pigment cell susceptibility in vitro.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 160 mg/mL (962.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0161 mL	30.0806 mL	60.1612 mL
5 mM	1.2032 mL	6.0161 mL	12.0322 mL
10 mM	0.6016 mL	3.0081 mL	6.0161 mL
50 mM	0.1203 mL	0.6016 mL	1.2032 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Ito S, Wakamatsu K. Biochemical Mechanism of Rhododendrol-Induced Leukoderma. *Int J Mol Sci.* 2018 Feb 12;19(2). pii: E552. doi: 10.3390/ijms19020552. Review. PubMed PMID: 29439519; PubMed Central PMCID: PMC5855774.
- Ito S, Okura M, Wakamatsu K, Yamashita T. The potent pro-oxidant activity of rhododendrol-eumelanin induces cysteine depletion in B16 melanoma cells. *Pigment Cell Melanoma Res.* 2017 Jan;30(1):63-67. doi: 10.1111/pcmr.12556. PubMed PMID: 28132436.
- Kondo M, Kawabata K, Sato K, Yamaguchi S, Hachiya A, Takahashi Y, Inoue S. Glutathione maintenance is crucial for survival of melanocytes after exposure to rhododendrol. *Pigment Cell Melanoma Res.* 2016 Sep;29(5):541-9. doi: 10.1111/pcmr.12494. Epub 2016 Jul 1. PubMed PMID: 27223685.

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