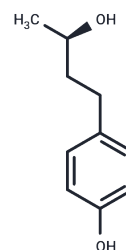


## Rhododendrol

## Chemical Properties

CAS No. :	501-96-2
Formula:	C <sub>10</sub> H <sub>14</sub> O <sub>2</sub>
Molecular Weight:	166.22
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Rhododendrol (Frambinol) is a melanin synthesis inhibitor and acts by preventing high-fat diet-induced elevation in body weight and increasing lipolysis in white adipocytes in male mice. Rhododendrol can be used as the lightening/whitening cosmetics inhibitor.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (165.44 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

- Goto N, et al. 4-(4-Hydroxyphenyl)-2-butanol (rhododendrol)-induced melanocyte cytotoxicity is enhanced by UVB exposure through generation of oxidative stress. *Exp Dermatol.* 2018 Apr 6.
- Ito S, et al. The potent pro-oxidant activity of rhododendrol-eumelanin is enhanced by ultraviolet A radiation. *Pigment Cell Melanoma Res.* 2018 Feb 23.
- Ito S, Wakamatsu K. Biochemical Mechanism of Rhododendrol-Induced Leukoderma. *Int J Mol Sci.* 2018 Feb 12;19 (2). pii: E552.
- Watabe A, et al. Efficacy of oral cholecalciferol on rhododendrol-induced vitiligo: A blinded randomized clinical trial. *J Dermatol.* 2018 Feb 5.

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