

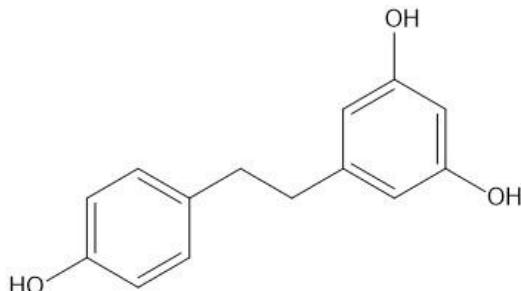
Catalog # 10-2790

Dihydroresveratrol

CAS# 58436-28-5

5-[2-(4-Hydroxyphenyl)ethyl]-1,3-benzenediol; 3,4',5-trihydroxybibenzyl

Lot # S105165



Metabolite of resveratrol produced by gut microbiota.¹⁻³ Glucuronide conjugates are found in human urine after oral intake of resveratrol-containing dietary supplements.⁴ Dihydroresveratrol glucoside is a potent melanogenesis inhibitor in B16F0 melanoma cells.⁵ Inactive analog of resveratrol in induction of premature senescence.⁶

- 1) Jung *et al.* (2009), *Interaction of dietary resveratrol with animal-associated bacteria*; FEMS Microbiol. Lett., **297** 266
- 2) Bode *et al.* (2013), *In vivo and in vitro metabolism of trans-resveratrol by human gut microbiota*; Am. J. Clin. Nutr., **97** 295
- 3) Jarosova *et al.* (2019), *Metabolism of Stilbenoids by Human Faecal Microbiota*; Molecules, **24** E1155
- 4) Radco *et al.* (2013), *Semi-preparative isolation of dihydroresveratrol-3-O-β-d-glucuronide and four resveratrol conjugates from human urine after oral intake of a resveratrol-containing dietary supplement*; J. Chromatogr. B Analyt. Technol. Biomed. Life Sci., **930** 54
- 5) Oode *et al.* (2014), *Syntheses of dihydroresveratrol glycosides and evaluation of their activity against melanogenesis in B16F0 melanoma cells*; Eur. J. Med. Chem., **87** 862
- 6) Faragher *et al.* (2011), *Resveratrol, but not dihydroresveratrol, induces premature senescence in primary human fibroblasts*; Age (Dordr.), **33** 555

PHYSICAL DATA

Molecular Weight:	230.30
Molecular Formula:	C ₁₄ H ₁₄ O ₃
Purity:	98% by HPLC and TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or Ethanol (up to 30 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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