



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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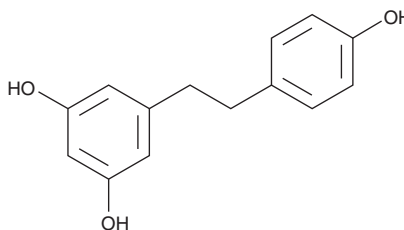
# PRODUCT INFORMATION



## Dihydroresveratrol

Item No. 19651

<b>CAS Registry No.:</b>	58436-28-5
<b>Formal Name:</b>	5-[2-(4-hydroxyphenyl)ethyl]-1,3-benzenediol
<b>Synonym</b>	3,4',5-Trihydroxybibenzyl
<b>MF:</b>	C <sub>14</sub> H <sub>14</sub> O <sub>3</sub>
<b>FW:</b>	230.3
<b>Purity:</b>	≥98%
<b>UV/Vis.:</b>	λ <sub>max</sub> : 226, 281 nm
<b>Supplied as:</b>	A crystalline solid
<b>Storage:</b>	-20°C
<b>Stability:</b>	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



### Laboratory Procedures

Dihydroresveratrol is supplied as a crystalline solid. A stock solution may be made by dissolving the dihydroresveratrol in the solvent of choice. Dihydroresveratrol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of dihydroresveratrol in ethanol and DMSO is approximately 50 mg/ml and approximately 100 mg/ml in DMF.

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 dihydroresveratrol can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of dihydroresveratrol in PBS, pH 7.2, is approximately 100 µg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Dihydroresveratrol is a major metabolite of resveratrol (Item Nos. 70675 and 10004235) that is produced by animal-associated bacteria, including the gut microbiota.<sup>1,2</sup> Dihydroresveratrol and dihydroresveratrol monosulfate are detectable in urine.<sup>3</sup> The physiological effects of dihydroresveratrol have not been investigated.

### References

1. Jung, C.M., Heinze, T.M., Schnackenberg, L.K., *et al.* Interaction of dietary resveratrol with animal-associated bacteria. *FEMS Microbiol. Lett.* **297(2)**, 266-273 (2009).
2. Bode, L.M., Bunzel, B., Huch, M., *et al.* *In vivo* and *in vitro* metabolism of *trans*-resveratrol by human gut microbiota. *Am. J. Clin. Nutr.* **97(2)**, 295-309 (2013).
3. Wang, D., Hang, T., Wu, C., *et al.* Identification of the major metabolites of resveratrol in rat urine by HPLC-MS/MS. *J. Chromatogr. B Analyt. Technol. Biomed. Life Sci.* **829(1-2)**, 97-106 (2005).

#### WARNING

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

#### SAFETY 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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