PRODUCT INFORMATION

trans-trismethoxy Resveratrol
Item No. 10188

CAS Registry No.: 22255-22-7
Formal Name: 1,3-dimethoxy-5-[(1E)-2-(4-methoxyphenyl)ethyl]-benzene
Synonyms: (E)-5-[2-(4-hydroxyphenyl)ethenyl]-1,3-benzene diol, TMS, trans-3,5,4’-trimethoxystilbene
MF: C_{17}H_{18}O_{3}
FW: 270.3
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}} \): 218, 306, 319 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥ 4 years

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

Laboratory Procedures

trans-trismethoxy Resveratrol is supplied as a crystalline solid. A stock solution may be made by dissolving the trans-trismethoxy resveratrol in an organic solvent purged with an inert gas. trans-trismethoxy Resveratrol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of trans-trismethoxy resveratrol in these solvents is approximately 10 mg/ml in ethanol and 50 mg/ml in DMSO and DMF.

Description

trans-trismethoxy Resveratrol is a polyketide synthase-derived stilbene originally isolated from Virola cuspidata that has diverse biological activities.\(^1\-^4\) It is cytotoxic to several cancer cell lines, including PC3, KB, HT-29, SW480, and HL-60 cells (IC50s =3.6, 10.2, 16.1, 54, and 2.5 \( \mu \)M, respectively).\(^2\) trans-trismethoxy Resveratrol (15 \( \mu \)M) inhibits TNF-\( \alpha \)-induced activation of NF-\( \kappa \)B in HEK293T cells in a reporter assay.\(^3\) It inhibits angiogenesis in zebrafish embryos when used at a concentration of 0.1 \( \mu \)M.\(^4\)

References