PRODUCT INFORMATION

Vialinin A
Item No. 10010519

CAS Registry No.: 858134-23-3
Formal Name: benzeneacetic acid, 4,4',5,6'-tetrahydroxy[1,1':4',1"-terphenyl]-2',3'-diyl ester
Synonym: Terrestrin A
MF: C_{34}H_{26}O_{8}
FW: 562.6
Purity: ≥98%
UV/Vis.: \( \lambda_{\text{max}}: 263 \text{ nm} \)
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

Vialinin A is supplied crystalline solid. A stock solution may be made by dissolving the vialinin A in an organic solvent purged with an inert gas. Vialinin A is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of vialinin A in ethanol is approximately 10 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Vialinin A is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, vialinin A should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Vialinin A has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Vialinin A is a terphenyl compound originally isolated from the fungi *T. terrestris* and *T. vialis*.\(^1,2\) Terphenyls, in general, are recognized as strong antioxidants.\(^3\) Vialinin A potently inhibits the release of TNF-\(\alpha\) (IC\(_{50} = 0.09\) nM) and IL-4 (IC\(_{50} = 2.8\) nM), as well as \(\beta\)-hexosaminidase and CCL2 (MCP-1) from IgE-stimulated RBL-2H3 mast cells.\(^4\) Vialinin A does not significantly increase lactate dehydrogenase release from RBL-2H3 mast cells, suggesting low cytotoxicity.\(^4\)

References