

Dihydroconiferyl alcohol

Chemical Properties

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|-------------------|--|
| CAS No. : | 2305-13-7 |
| Formula: | C10H14O3 |
| Molecular Weight: | 182.216 |
| Storage: | Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |

Biological Description

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|---------------|---|
| Description | Dihydroconiferyl alcohol is a natural lignan that promotes the growth of soybean healing tissues and exhibits cytoprotective activity with antioxidant effects in MCF-7 cells cultured under H2O2 stress. |
| Targets(IC50) | Antioxidant, Drug Metabolite |
| In vitro | Dihydroconiferyl alcohol was active in tobacco callus and radish leaf senescence assays, but was inactive in four other cytokinin activity tests. Dihydroconiferyl alcohol acted synergistically with kinetin to promote soybean callus growth. |

Solubility Information

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| Solubility | DMSO: 50.00 mg/mL (274.40 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 | 5.4879 mL | 27.4394 mL | 54.8787 mL |
| 5 mM | 1.0976 mL | 5.4879 mL | 10.9757 mL |
| 10 mM | 0.5488 mL | 2.7439 mL | 5.4879 mL |
| 50 mM | 0.1098 mL | 0.5488 mL | 1.0976 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

Chin YW, et al. Lignans and other constituents of the fruits of *Euterpe oleracea* (Acai) with antioxidant and cytoprotective activities. *J Agric Food Chem*. 2008 Sep 10;56(17):7759-64.

Lee TS, et, al. Dihydroconiferyl alcohol - A cell division factor from *Acer* species. *Planta*. 1981 Oct;152(6):571-7.

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