
Product Data Sheet

Product Name: 4-Vinylphenol (10%w/w in propylene glycol)

Cat. No.: GC60525

Chemical Properties

Cas. No. 2628-17-3

SMILES OC1=CC=C(C=C)C=C1

Formula C8H8O M.Wt 120.15

Solubility Soluble in DMSO Storage -20°C, stored under nitrogen

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

4-Vinylphenol is found in the medicinal herb *Hedyotis diffusa* Willd, wild rice and is also the metabolite of p-coumaric and ferulic acid by lactic acid bacteria in wine. 4-Vinylphenol induces apoptosis and inhibits blood vessels formation and suppresses invasive breast tumor growth in vivo[1].

4-Vinylphenol (12.5-200 μ g/mL) significantly reduces cell viability in parental MDA-MB-231 cells, and the IC50 value is 109 μ g/mL[1]. 4-Vinylphenol (0.15 or 0.3 μ g/mL; 3 days) reduces sphere formation and vimentin expression on CSCs in breast cancer[1]. 4-Vinylphenol (50, 100 μ g/mL; 72 hours) significantly suppresses cell proliferation in CSC-enriched MDA-MB-231 cells. 4-Vinylphenol significantly reduces ALDH1A1 expression by 50% in CSC-enriched MDA-MB-231 cells[1]. 4-Vinylphenol (100 μ g/mL) significantly increases the expressions of caspase 3, likely sensitizing CSC-enriched MDAMB-231 cells to apoptosis[1].

[1]. Leung HW, et al. The natural agent 4-vinylphenol targets metastasis and stemness features in breast cancer stem-like cells. *Cancer Chemother Pharmacol*. 2018 Aug;82(2):185-197.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA