
Product Data Sheet

Product Name: 4,4-Dimethyl-2-cyclopenten-1-one

Cat. No.: GC61637

Chemical Properties

Cas. No. 22748-16-9

SMILES O=C1C=CC(C)(C)C1Formula C7H10O M.Wt 110.15

Solubility Storage Store at -20°C

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**

4,4-Dimethyl-2-cyclopenten-1-one, a natural compound from Apocyniveneti Folium, displays higher tumor-specific cytotoxicity[1].

4,4-Dimethyl-2-cyclopenten-1-one selectively kills the tumor cells (HSC-2, HL-60). 4,4-Dimethyl-2-cyclopenten-1-one exhibits CC50 (50% cytotoxic concentration) values of 43.8 µg/mL, 152 µg/mL, 118 µg/mL, 14.0 µg/mL, 177 µg/mL and 123 µg/mL in HSC-2, HSC-3, HSG, HL-60, HGF and normal cells (HPC), respectively[1].

[1]. Tohru Nakayachi, et al. Structure-activity relationships of alpha, beta-unsaturated ketones as assessed by their cytotoxicity against oral tumor cells. Anticancer Res. Mar-Apr 2004;24(2B):737-42. [2]. Wei-WeiZhu, et al. Cornstalk liquefaction in methanol/water mixed solvents. Fuel Processing Technology Volume 117, January 2014, Pages 1-7.

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

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