

## Product Data Sheet

Product Name: Megestrol Acetate

Cat. No.: GC11688

### Chemical Properties

Cas. No. 595-33-5

Chemical Name [(8R,9S,10R,13S,14S,17R)-17-acetyl-6,10,13-trimethyl-3-oxo-2,8,9,11,12,14,15,16-octahydro-1H-cyclopenta[a]phenanthren-17-yl] acetate

SMILES CC1=CC2C(CCC3(C2CCC3(C(=O)C)OC(=O)C)C)C4(C1=CC(=O)CC4)C

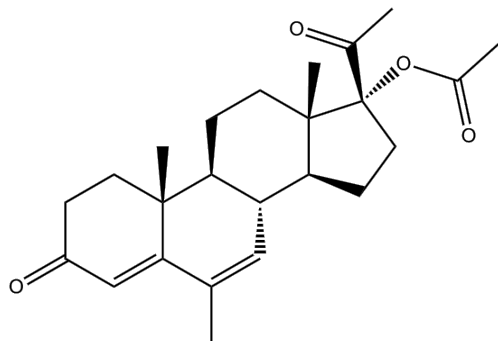
Formula C<sub>24</sub>H<sub>32</sub>O<sub>4</sub> M.Wt 384.51

Solubility ≥ 3.84mg/mL in DMSO with gentle warming Storage Store at RT

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

Megestrol Acetate is a synthetic progesteronal and potent anti-estrogen agent with multiple drug actions [1].

Megestrol Acetate has been reported to cause minor reduction of tumor size and prolonged survival time in Hepatocellular carcinoma (HCC). In addition, Megestrol Acetate has shown the dose-

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dependent inhibition on growth of the human liver tumor cells in the HepG2 cell lines with the IC<sub>50</sub> value of 260μM in vitro. Furthermore, Megestrol Acetate has also shown a significant suppression of tumor growth. The tumor volumes of the addition of Megestrol Acetate group regressed to 59% of controls at 6th week. Apart from these, Megestrol Acetate has been revealed to increase the cell numbers of sub-G1 and inhibit the cell cycle progression in both dose- and time-dependent fashion. Besides, Megestrol Acetate has been demonstrated to induce apoptosis of HepG2 cells [1].

### References:

[1] Zhang K1, Chow PK. The effect of megestrol acetate on growth of HepG2 cells in vitro and in vivo. Clin Cancer Res. 2004 Aug 1; 10(15):5226-32.

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