

Product Data Sheet

Product Name: Estradiol valerate

Cat. No.: GC11796

Chemical Properties

Cas. No. 979-32-8

Chemical Name [(8R,9S,13S,14S,17S)-3-hydroxy-13-methyl-6,7,8,9,11,12,14,15,16,17-decahydrocyclopenta[a]phenanthren-17-yl] pentanoate

SMILES CCCCC(=O)OC1CCC2C1(CCC3C2CCC4=C3C=CC(=C4)O)C

Formula $C_{23}H_{32}O_3$

M.Wt 356.5

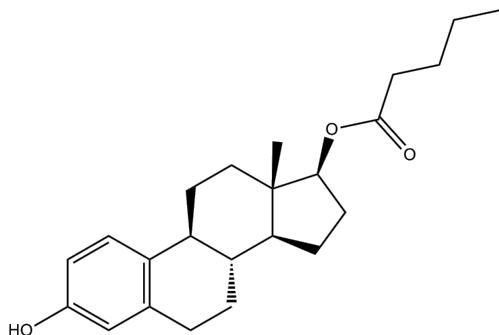
Solubility $\geq 15.45\text{mg/mL}$ in DMSO

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

Estradiol valerianate (β -estradiol 17-valerate) is a synthetic estrogen widely used in combination with other steroid hormones in hormone replacement therapy drugs.

β -estradiol 17-valerate (EV) is a synthetic estrogen widely used in combination with other steroid hormones in hormone replacement therapy drugs and is detected in natural waters. EV is a reproductive toxicant and estrogenic chemical in both male and female fish [1].

References:

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

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[1]. Lei, B., et al., beta-estradiol 17-valerate affects embryonic development and sexual differentiation in Japanese medaka (*Oryzias latipes*). *Aquat Toxicol*, 2013. 134-135: p. 128-34.

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