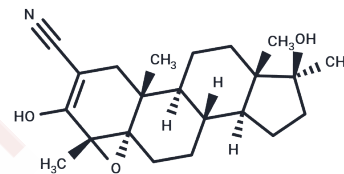


## Epostane

## Chemical Properties

CAS No. : 80471-63-2  
 Formula: C<sub>22</sub>H<sub>31</sub>NO<sub>3</sub>  
 Molecular Weight: 357.49  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Epostane acts as an antiprogestogen and terminates pregnancy by inhibiting 3 $\beta$ -hydroxysteroid dehydrogenase and preventing the biosynthesis of progesterone and pregnenolone. [4]
Targets(IC50)	Others,Dehydrogenase
In vitro	<b>METHODS:</b> Using one fish oocyte, the ovary was cut into small pieces and incubated with Epostane (1 $\mu$ g/mL), and the incidence of germinal vesicle breakdown (GVBD) was examined microscopically <b>RESULTS</b> Epostane induced a significant decrease in the frequency of GVBD in oocytes, but Epostane failed to eliminate the maturation effect of 17 $\alpha$ ,20 $\beta$ -diOHprog, the most potent maturation-inducing steroid in this species.
In vivo	<b>METHODS:</b> A single-dose, randomized, double-blind study was conducted in which each woman awaiting termination of pregnancy was administered either 50 mg Epostane or 100 mg Epostane orally, and the effects of in vivo serum luteinizing hormone (P), estradiol (E2), and cortisol were determined. <b>RESULTS</b> Both serum P concentrations decreased significantly, and a similar decrease in serum E2 was observed, with subsequent normalization of E2. [1] <b>METHODS:</b> Seventy-eight healthy women were recruited to the study who were less than 49 days from their last menstrual period and requested termination of pregnancy, 200 mg Epostane four times daily for a total of 7 days. <b>RESULTS</b> The complete abortion rate in the Epostane group was 73%. [2]

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.7973 mL	13.9864 mL	27.9728 mL
5 mM	0.5595 mL	2.7973 mL	5.5946 mL
10 mM	0.2797 mL	1.3986 mL	2.7973 mL
50 mM	0.0559 mL	0.2797 mL	0.5595 mL

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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

Pattison NS, et al. Inhibition of 3 beta-hydroxysteroid dehydrogenase (3 beta-HSD) activity in first- and second-trimester human pregnancy and the luteal phase using Epostane. *Fertil Steril.* 1984 Dec;42(6):875-81.

Birgerson L, et al. Early pregnancy termination with antiprogestins: a comparative clinical study of RU 486 given in two dose regimens and Epostane. *Fertil Steril.* 1987 Oct;48(4):565-70.

Haider S. Further experimental evidence in support of the involvement of ovarian follicles in oocyte maturation of the Indian catfish, *Mystus vittatus*. *Gen Comp Endocrinol.* 1990 Oct;80(1):80-4.

Liu CG, et al. [Pharmacokinetics of epostane in rabbits by HPLC method]. *Zhongguo Yao Li Xue Bao.* 1992 Sep;13(5):467-70.

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