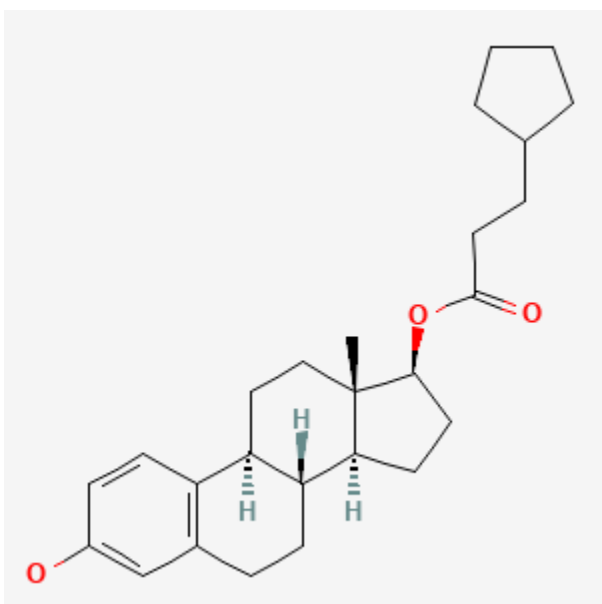




## Estradiol Cypionate

Revised: August 15, 2023.

CASRN: 313-06-4



## Drug Levels and Effects

### Summary of Use during Lactation

Estradiol cypionate has not been studied during breastfeeding. However, a similar drug, estradiol valerate, has been used to suppress lactation, usually in combination with testosterone. Generally, estradiol cypionate should be avoided in mothers wishing to breastfeed, especially if started before the milk supply is well established at about 6 weeks postpartum. The decrease in milk supply can happen over the first few days of estrogen exposure. [1]

**Disclaimer:** Information presented in this database is not meant as a substitute for professional judgment. You should consult your healthcare provider for breastfeeding advice related to your particular situation. The U.S. government does not warrant or assume any liability or responsibility for the accuracy or completeness of the information on this Site.

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## Drug Levels

*Maternal Levels.* Relevant published information on estradiol cypionate was not found as of the revision date. However, estradiol appears in breastmilk in small amounts after administration by other routes.[2,3]

*Infant Levels.* Relevant published information was not found as of the revision date.

## Effects in Breastfed Infants

Relevant published information was not found as of the revision date.

## Effects on Lactation and Breastmilk

Another injection ester form of estradiol, estradiol valerate was previously used therapeutically to suppress lactation, usually in combination with testosterone.[4-6]

A retrospective cohort study compared 371 women who received high-dose estrogen (either 3 mg of diethylstilbestrol or 150 mcg of ethinyl estradiol daily) during adolescence for adult height reduction to 409 women who did not receive estrogen. No difference in breastfeeding duration was found between the two groups, indicating that high-dose estrogen during adolescence has no effect on later breastfeeding.[7]

## Alternate Drugs to Consider

Ethinyl Estradiol

## References

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3. Perheentupa A, Critchley HO, Illingworth PJ, McNeilley AS. Enhanced sensitivity to steroid-negative feedback during breast-feeding: Low-dose estradiol (transdermal estradiol supplementation) suppresses gonadotropins and ovarian activity assessed by inhibin B. *J Clin Endocrinol Metab* 2000;85:4280-6. PubMed PMID: 11095468.
4. Louviere RL, Upton RT. Evaluation of Deladumone OB in the suppression of postpartum lactation. *Am J Obstet Gynecol* 1975;121:641-2. PubMed PMID: 1090174.
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6. Iliya FA, Safon L, O'Leary JA. Testosterone enanthate (180 mg.) and estradiol valerate (8 mg.) for suppression of lactation: A double-blind evaluation. *Obstet Gynecol* 1966;27:643-5. PubMed PMID: 5949195.
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## Substance Identification

### Substance Name

Estradiol Cypionate

## **CAS Registry Number**

313-06-4

## **Drug Class**

Breast Feeding

Lactation

Milk, Human

Estrogens

Hormones