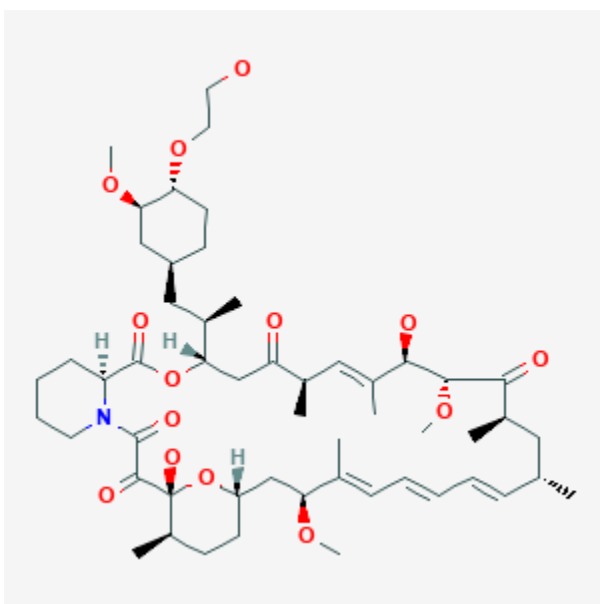




## Everolimus

Revised: October 23, 2019.

CASRN: 159351-69-6



## Drug Levels and Effects

### Summary of Use during Lactation

In one patient, everolimus was not detected in the colostrum of a mother taking everolimus; however, no information is available on the use of everolimus during breastfeeding. An alternate drug may be preferred, especially while nursing a newborn or preterm infant.

### Drug Levels

*Maternal Levels.* A woman was receiving everolimus 2 mg daily and cyclosporine 1.5 mg/kg daily during pregnancy and postpartum following a heart transplant. Although she did not breastfeed, a colostrum sample was obtained one day postpartum which contained undetectable everolimus levels (<0.5 mcg/L). The timing of the sample with respect to the previous everolimus dose was not stated. Measurement of serial plasma levels of

everolimus obtained transplacentally found the estimated elimination half-life of everolimus to be about 86 hours in the newborn.[1]

A woman with a kidney transplant received azathioprine 125 mg, methylprednisolone 12 mg, and everolimus 0.5 mg daily during pregnancy and postpartum. On the second day postpartum, 6 colostrum samples were collected. The pre-dose level was 33 ng/L. The highest level was 66 ng/L at 4 hours after the dose. Samples taken at 2, 6, 8 and 12 hours after the dose contained concentrations that ranged from 45 to 51 ng/L.[2]

*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

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

## Alternate Drugs to Consider

Azathioprine, Cyclosporine, Tacrolimus

## References

1. Fiocchi R, D'Elia E, Vittori C, et al. First report of a successful pregnancy in an everolimus-treated heart-transplanted patient: Neonatal disappearance of immunosuppressive drugs. *Am J Transplant.* 2016;16:1319–22. PubMed PMID: 26555407.
2. Kociszewska-Najman B, Szpotanska-Sikorska M, Mazanowska N, et al. Transfer of everolimus into colostrum of a kidney transplant mother. *Ann Transplant.* 2017;22:755–8. PubMed PMID: 29255138.

## Substance Identification

### Substance Name

Everolimus

### CAS Registry Number

159351-69-6

### Drug Class

Breast Feeding

Lactation

Immunosuppressive Agents