



Evolocumab

Revised: December 3, 2018.

CASRN: 1256937-27-5

Drug Levels and Effects

Summary of Use during Lactation

No information is available on the clinical use of evolocumab during breastfeeding. Because evolocumab is a large protein molecule with a molecular weight of 144,000, the amount in milk is likely to be very low and absorption is unlikely because it is probably destroyed in the infant's gastrointestinal tract. Until more data become available, evolocumab should be used with caution during breastfeeding, especially while nursing a newborn or preterm infant.

Evolocumab is a human immunoglobulin G2 (IgG2) antibody. Holder pasteurization (62.5 degrees C for 30 minutes) decreases the concentration of endogenous immunoglobulin G by up to 79%. [1][2] A study of 67 colostrum samples that underwent Holder pasteurization found that IgG amounts decreased by 34 to 40%. Specific IgG subclasses decreased by different amounts, with IgG2 activity decreasing by about 50%. [3] None of the studies measured IgG activity.

Drug Levels

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

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.

References

1. Koenig A, de Albuquerque Diniz EM, Barbosa SF et al. Immunologic factors in human milk: The effects of gestational age and pasteurization. *J Hum Lact.* 2005;21:439-43. PubMed PMID: 16280560.

2. Adhisivam B, Vishnu Bhat B, Rao K et al. Effect of Holder pasteurization on macronutrients and immunoglobulin profile of pooled donor human milk. *J Matern Fetal Neonatal Med.* 2018;1-4. PubMed PMID: 29587541.
3. Rodriguez-Camejo C, Puyol A, Fazio L et al. Antibody profile of colostrum and the effect of processing in human milk banks: Implications in immunoregulatory properties. *J Hum Lact.* 2018;34:137-47. PubMed PMID: 28586632.

Substance Identification

Substance Name

Evolocumab

CAS Registry Number

1256937-27-5

Drug Class

Breast Feeding

Lactation

Antibodies, Monoclonal

Anticholesteremic Agents

Antilipemic Agents