



Dupilumab

Revised: January 15, 2024.

CASRN: 1190264-60-8

Drug Levels and Effects

Summary of Use during Lactation

Evidence indicates that dupilumab is acceptable to use during breastfeeding. Because dupilumab is a large protein molecule with a molecular weight of about 147,000 Da, the amount in milk is likely to be very low.[1] It is also likely to be partially destroyed in the infant's gastrointestinal tract and absorption by the infant is probably minimal.[2] Expert opinion consider dupilumab acceptable during breastfeeding.[3,4] Waiting for at least 2 weeks postpartum to resume therapy may minimize transfer to the infant.[5] Until more data become available, dupilumab should be used with caution while nursing a newborn or preterm infant.

Drug Levels

Maternal Levels. A woman began receiving dupilumab 300 mg subcutaneously every 2 weeks starting 2.5 months after delivery. A milk sample 3 days after a dose had a dupilumab concentration of 1.1 mg/L, which was 1.3% of the simultaneous maternal plasma concentration.[6]

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

Effects in Breastfed Infants

A woman with atopic eczema received dupilumab subcutaneously in a dose of 300 mg every 2 weeks during pregnancy and postpartum. She breastfed her infant (extent not stated) for at least 4 months during which no complications were reported.[7,8] Seven months after delivery, she became pregnant again and continued dupilumab at the same dose throughout the pregnancy and lactation. No complications were seen during breastfeeding.[9]

Eight women with atopic dermatitis received dupilumab during pregnancy and breastfeeding. Two breastfed for 1 month, one for 7.2 months, one for 8.8 months, one for 10 months, one for 11.5 months, one for 14.5 months, and one for 16.1 months. None of the babies had developed atopic dermatitis at the time of publication and no adverse effects were reported.[10]

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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A woman with atopic dermatitis received dupilumab (dose not stated) throughout pregnancy and during 8 months of lactation (extent not stated). No adverse effects in her infant were reported.[11]

Effects on Lactation and Breastmilk

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

References

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Substance Identification

Substance Name

Dupilumab

CAS Registry Number

1190264-60-8

Drug Class

Breast Feeding

Lactation

Milk, Human

Biological Response Modifiers

Immunologic Adjuvants

Antibodies, Monoclonal