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Asparaginase

Revised: November 15, 2023.

CASRN: 9015-68-3

Drug Levels and Effects

Summary of Use during Lactation

No information is available on the use of asparaginase during breastfeeding. Because aspariginase is a large protein molecule with a molecular weight of about 140,000 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] However, the manufacturer recommends that breastfeeding be discontinued during asparaginase therapy and for 1 week after the final dose.

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. Stratigakis A, Paty D, Zou P, et al. A regression approach for assessing large molecular drug concentration in breast milk. Reprod Breed 2023;3:199-207. doi:10.1016/j.repbre.2023.10.003
2. Anderson PO. Monoclonal antibodies during breastfeeding. Breastfeed Med 2021;16:591-3. PubMed PMID: 33956488.

Substance Identification

Substance Name

Asparaginase

CAS Registry Number

9015-68-3

Drug Class

Breast Feeding

Lactation

Milk, Human

Antineoplastic Agents

Enzymes