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GILEAD | Medical Information

# Biktarvy® (BIC/FTC/TAF) Coadministration with Levetiracetam

This document is in response to your request for information regarding Biktarvy® (bictegravir/emtricitabine/tenofovir alafenamide [BIC/FTC/TAF]) and coadministration with levetiracetam.

Some data may be outside of the US FDA-approved Prescribing Information. In providing this data, Gilead Sciences, Inc. is not making any representation as to its clinical relevance or to the use of any Gilead product(s). For information about the approved conditions of use of any Gilead drug product, please consult the FDA approved prescribing information.

**The full indication, important safety information, and boxed warnings are available at: www.gilead.com/-/media/files/pdfs/medicines/hiv/biktarvy/biktarvy_pi www.gilead.com/-/media/files/pdfs/medicines/hiv/descovy/descovy_pi.**

## PK DDI Evaluation

This interaction has not been studied between the single-tablet regimen BIC/FTC/TAF and levetiracetam. Based on the PK profile of each active ingredient within BIC/FTC/TAF and levetiracetam, a PK interaction would not be predicted.[1,3] For more information about levetiracetam, please refer to its product labeling.[1]

### BIC/FTC/TAF PK[2,3]

| DDI Mechanism | | BIC | FTC | TAF |
|---|---|---|---|---|
| Drug Transporters | OCT2 | Inhibitor | N/A | N/A |
| | MATE1 | Inhibitor | N/A | N/A |
| | P-gp/BCRP | N/A | N/A | Substrate |
| | OATP1B1 | N/A | N/A | Substrate |
| | OATP1B3 | N/A | N/A | Substrate |
| Drug Metabolizing Enzymes | CYP3A | Substrate[a] | N/A | Minor Substrate |
| | UGT1A1 | Substrate[a] | N/A | N/A |

[a]A drug that is a strong inducer of CYP3A and also an inducer of UGT1A1 can substantially decrease the plasma concentrations of BIC. Similarly, the use of BIC/FTC/TAF with a drug that is a strong inhibitor of CYP3A and also an inhibitor of UGT1A1 may significantly increase the plasma concentrations of BIC.[3]

## Relevant BIC/FTC/TAF Label Information[3]

There is no information in the BIC/FTC/TAF product labeling about the coadministration of BIC/FTC/TAF and levetiracetam.

## Available Data

There are no Gilead studies evaluating the coadministration of BIC/FTC/TAF and levetiracetam.

Additionally, a literature search was conducted in Ovid MEDLINE and Embase databases for studies published between 1946 and October 7, 2026 using search terms that included Biktarvy, bictegravir, emtricitabine, tenofovir alafenamide, levetiracetam, and related search terms. No relevant citations were found.

## References

1. UCB, Inc. KEPPRA® (levetiracetam) tablets, for oral use, KEPPRA® (levetiracetam) oral solution. U.S. Prescribing Information. Smyrna, GA.
2. Enclosed. Gilead Sciences Inc, DESCOVY® (emtricitabine and tenofovir alafenamide) tablets, for oral use. U. S. Prescribing Information. Foster City, CA.
3. Enclosed, Gilead Sciences Inc. BIKTARVY® (bictegravir, emtricitabine, and tenofovir alafenamide) tablets, for oral use. US Prescribing Information. Foster City, CA.

## Abbreviations

BCRP=breast cancer resistance protein
BIC=bictegravir
DDI=drug-drug interaction
FTC=emtricitabine
MATE=multidrug and toxin extrusion protein
OATP=organic anion transporting polypeptide
OCT=organic cation transporter
P-gp=P-glycoprotein
PK=pharmacokinetic(s)
TAF=tenofovir alafenamide
UGT=uridine 5'-diphospho-glucourosyltransferase

# Product Label

For the full indication, important safety information, and Boxed Warning(s), please refer to the Biktarvy and Descovy US Prescribing Information available at:
www.gilead.com/~/media/files/pdfs/medicines/hiv/biktarvy/biktarvy_pi,
www.gilead.com/-/media/files/pdfs/medicines/hiv/descovy/descovy_pi.

# Follow-Up

For any additional questions, please contact Gilead Medical Information at:

☎1-866-MEDI-GSI (1-866-633-4474) or 🖱 www.askgileadmedical.com

# Adverse Event Reporting

Please report all adverse events to:

Gilead Pharmacovigilance and Epidemiology ☎ 1-800-445-3235, option 3 or 🖱 www.gilead.com/utility/contact/report-an-adverse-event

FDA MedWatch Program by ☎ 1-800-FDA-1088 or ✉MedWatch, FDA, 5600 Fishers Ln, Rockville, MD 20852 or 🖱 www.accessdata.fda.gov/scripts/medwatch

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