Interactions with Ibalizuma

Interactions with Lenacapavir

Residual LEN may affect exposure of sensitive CYP3A4 substrates

Various vitamins

Multivitamins

Turmeric

Red yeast rice

Inula racemosa

Liquorice

Malabar nut tree

Menthol

Milksistle

Cuerelina

Rice Nean rice

Saw palmetto

Seville orange juice

St John’s wort

Turmeric

Valerian

Herbal Supplements Treatment Selector

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Herbal & Mineral Supplements

ATV/DR

ATV

ATV/DR

DOR

LPV/DR

TVR

EFV

ETV

NVP

RPV

TDF

LEN

NVP

MVC

BCG

FITAF

FITDP

FITG

RAL

FTG

TDF

African potato

Aloe vera

Black cohosh

Cat’s claw

Cubeb pepper

Echinacea

Eucalyptus globulus

Garlic

Ginger

Gingko biloba

Ginseng

Goldenseal root

Grapefruit juice

Green tea extracts

Guggulsterone

Hops

Inula racemosa

Liquorice

Malabar nut tree

Menthol

Milksistle

Cuerelina

Rice Nean rice

Saw palmetto

Seville orange juice

St John’s wort

Turmeric

Valerian

Ascorbic acid

Calcium

Ferrose fumarate

Folic acid

Iodide

Iron (influsion/injection)

Iron (oral)

Magnesium

Multivitamins

Nicotinamide

Various vitamins

Zinc

Interactions with CAB/RPV long acting injections

Pharmacokinetic interactions shown are mostly with RPV.

QT interactions shown

Interactions with Lenacapavir

Residual LEN may affect exposure of sensitive CYP3A4 substrates initiated within 8 months after stopping subcutaneous LEN.

Interactions with Ibalizumab

None

Interactions with Abacavir (ABC), Lamivudine (3TC), Tenofovir-DF (TDF) or Zidovudine (ZDV)

ABC: No clinically relevant interactions expected.

3TC: No clinically relevant interactions expected.

TDF: The effect of green tea on tenofovir is unclear (b).

TDF: Caution with Cat’s claw and Cubeb pepper as tenofovir systemic concentrations could potentially increase.

ZDV: No clinically relevant interactions expected.

| ATV/Dr | ATV | ATV/Dr | DOR | LPV/Dr | TVR | EFV | ETV | NVP | RPV | TDF | LEN | NVP | MVC | BCG | FITAF | FITDP | FITG | RAL | FTG | TDF |
|--------|-----|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|--------|-------|------|------|------|
| African potato | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Aloe vera | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Black cohosh | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Cat’s claw | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Cubeb pepper | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Echinacea | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Eucalyptus globulus | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Garlic | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Ginger | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Gingko biloba | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Ginseng | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Goldenseal root | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Grapefruit juice | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Green tea extracts | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Guggulsterone | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Hops | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Inula racemosa | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |
| Liquorice | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ | ++ |

Colour Legend

- No clinically significant interaction expected.
- These drugs should not be coadministered.
- Potential interaction which may require a dosage adjustment or close monitoring.
- No potential interaction predicted to be of weak intensity.
- No prior dosage adjustment is recommended.

Text Legend

† Potential increased exposure of the supplement
‡ Potential decreased exposure of the supplement
• No significant effect

Numbers refer to increase or decrease in AUC as observed in drug-drug interaction studies.

Notations

- No effect on emtricitabine expected.
- The effect on tenofovir is unclear as green tea extracts appeared to inhibit P-gp in vivo, but a contradictory effect was observed in vivo.
- Coadministration is not recommended in product label. However, a low risk of a clinically relevant pharmacokinetic interaction has been shown with low-hyperforin formulations (<1 mg/day) of St John’s Wort (hyperforin is the constituent responsible for induction of CYPs and P-gp). Coadministration may be considered with St John’s Wort formulations that clearly state its hyperforin content and which have a total daily hyperforin dose of 1 mg or less.
- No effect on emtricitabine is expected, but tenofovir alafenamide concentrations may decrease which may result in loss of therapeutic effect and development of resistance.
- Only when used in multivitamin preparations as they can contain mineral supplements.
- Calcium supplements containing calcium carbonate may decrease atazanavir or ritonavir concentrations due to gastric pH increase.

Abbreviations

ATV: atazanavir; DRV: darunavir; LPV: lopinavir; cobicistat; FTC: emtricitabine/tenofovir alafenamide; GPO: riftavir; TDF: tenofovir disoproxil fumarate; ABC: abacavir; 3TC: lamivudine; TDF: tenofovir; RPV: rilpivirine; FTC: emtricitabine/tenofovir alafenamide; TDF: tenofovir disoproxil fumarate.

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