

| Type of Inhibitor | Name | Brand Name | FDA-approved | Side Effects | Recommended Dosage and Instructions |
|-------------------|-----------------------|------------|--------------------|--|--|
| NRTIs | Abacavir | Ziagen | December, 17, 1998 | Headache, Depression, Anxiety, Difficult falling asleep or staying asleep, blisters or peeling skin, hives, itching, difficulty swallowing or breathing, excessive tiredness; weakness, dizziness or lightheadedness; fast or irregular heartbeat; muscle pain; stomach pain with nausea and vomiting; shortness of breath or difficulty breathing; flu-like symptoms such as fever, chills, or cough; or feeling cold, especially in the arms or legs, light-colored bowel movements; yellowing of the skin or eyes; loss of appetite; unusual bleeding or bruising; dark yellow or brown urine; or pain in the upper right part of stomach | A tablet or liquid usually taken once or twice daily by mouth |
| NRTIs | Didanosine | Videx | 7/24/2000 | headache, hives, rash, itching, difficulty breathing or swallowing, numbness, tingling, burning, or pain in hands or feet, vision changes, difficulty in seeing colors | Extended-release capsules once a day on an empty stomach, or oral solution usually taken once or twice a day 30 minutes before or 2 hours after eating |
| NRTIs | Emtricitabine | Emtriva | July 2, 2003 | headache, change in skin color, especially on the palms of the hands or the soles of the feet, indigestion, diarrhea, nausea, joint pain, unusual dreams, depression, difficulty falling asleep or staying asleep, numbness, burning, or tingling in the hands, arms, feet, or legs, runny nose, sinus pain fever, chills, sore throat, cough, or other signs of infection, rash, shortness of breath, fast breathing, fast or abnormal heartbeat, pain in upper right part of stomach, vomiting, dark yellow or brown urine, light-colored bowel movements, yellowing of skin or eyes, loss of appetite, weakness, feeling cold, especially in the arms or legs, extreme tiredness, dizziness or lightheadedness, muscle pain | A capsule or oral solution usually taken by mouth once a day |
| NRTIs | Lamivudine | Epivir | November 17, 1995 | diarrhea, headache, difficulty falling asleep or staying asleep, depression, stuffy nose, rash, vomiting and nausea in children, ongoing pain that begins in the stomach area but may spread to the back (in children), numbness, tingling, or burning in the fingers or toes, excessive tiredness; weakness, dizziness or lightheadedness; fast or irregular heartbeat; muscle pain; stomach pain with nausea and vomiting; shortness of breath or difficulty breathing; flu-like symptoms such as fever, chills, or cough; or feeling cold, especially in the arms or legs, light-colored bowel movements; yellowing of the skin or eyes; loss of appetite; unusual bleeding or bruising; dark yellow or brown urine; or pain in the upper right part of stomach | A tablet or oral solution usually taken by mouth once or twice a day |
| NRTIs | Stavudine | Zerit | 12/31/2002 | headache, diarrhea, rash, numbness, tingling, burning or pain in hands or feet, difficulty moving hands or feet | Stavudine comes as a capsule and as an oral solution (liquid) to take by mouth. It is usually taken twice a day (every 12 hours), with or without food and with plenty of water. |
| NRTIs | Tenofovir Alafenamide | Vemlidy | 11/10/2016 | headache, abdominal pain, fatigue, cough, nausea, and back pain. | The recommended dosage of Vemlidy is 25 mg (one tablet) taken orally once daily with food. |

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| NRTIs | Tenofovir Disoproxil Fumarate | Viread | 10/26/01 | nausea, rash, diarrhea, headache, pain, depression, weakness, fever, itching, vomiting, stomach-area pain, dizziness, sleeping problems | Recommended tablet dosage in adults and pediatric patients weighing at least 35 kg: One VIREAD 300 mg tablet once daily taken orally without regard to food |
| NRTIs | Zidovudine | Retrovir | March 19, 1987 | stomach pain or cramps rash, blistering or peeling of the skin, hives, itching, difficulty breathing or swallowing, swelling of the eyes, face, tongue, lips, or throat, heartburn, diarrhea (especially in children), constipation, headache, difficulty falling asleep or staying asleep | Zidovudine comes as a capsule, tablet, and syrup to take by mouth. It is usually taken twice a day by adults and two to three times a day by infants and children. Infants 6 weeks of age and younger may take zidovudine every 6 hours. When zidovudine is taken by pregnant women, it may be taken 5 times a day. |
| NNRTIs | Cabotegravir/ rilpivirine | Cabenuva | 1/21/21 | Pain, tenderness, hardened mass or lump, swelling, redness, itching, bruising, and warmth at the injection site, fever, tiredness, headache, muscle or bone pain, nausea, sleep problems, dizziness, rash | Cabotegravir and rilpivirine extended-release (long-acting) injections come as suspensions (liquids) to be injected into a muscle by a healthcare provider. You will receive cabotegravir and rilpivirine injections once every month given as an injection of each medication into your buttocks. Before receiving your first cabotegravir and rilpivirine extended-release injections, you will have to take cabotegravir (Vocabria) and rilpivirine (Edurant) tablet orally (by mouth) once daily for one month (at least 28 days) to see if you can tolerate these medications. |
| NNRTIs | Doravirine (DOR) | Pifeltro | 8/20/18 | nausea, headache, tiredness, diarrhea, stomach (abdominal) pain, dizziness, abnormal dreams | Doravirine comes as a tablet to take by mouth. It is usually taken with or without food once daily. Take doravirine at around the same time every day. |
| NNRTIs | Efavirenz (EFV) | Sustiva | 9/17/98 | nausea, vomiting, stomach pain, diarrhea, indigestion, headache, confusion, forgetfulness, feeling anxious, nervous, or agitated, abnormally, happy mood, difficulty falling asleep or staying asleep, unusual dreams, pain, fever, rash, itching, peeling, blistering, or shedding skin, mouth sores, pink eye, swelling of your face, fainting, irregular heartbeat, extreme tiredness, lack of energy, loss of appetite, pain in the upper right part of the stomach, unusual bleeding or bruising, yellowing of the skin or eyes, flu-like symptoms, seizures | Efavirenz comes as a capsule and as a tablet to take by mouth. It is usually taken once a day with plenty of water on an empty stomach (at least 1 hour before or 2 hours after a meal). Take efavirenz at around the same time every day. |
| NNRTIs | Etravirine (ETR) | Intelence | 1/18/08 | fever, generally ill feeling, extreme tiredness, muscle or joint aches, blisters or sores in mouth, blisters or peeling of the skin, redness or swelling of the eyes, swelling of the mouth, lips, or face, problems breathing, yellowing of your skin or whites of your eyes, dark or tea-colored urine, pale-colored stools (bowel movements), nausea or vomiting, loss of appetite, pain, aching, or tenderness on the right side of your stomach area | Adult patients: 200 mg (one 200 mg tablet or two 100 mg tablets) taken twice daily following a meal. |

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| NNRTIs | Nevirapine (NVP) | Viramune | 9/11/98 | swelling of the hands, feet, ankles, or lower legs, painful red bumps on the skin, excessive tiredness, fever, headache, difficulty falling asleep or staying asleep, nausea, vomiting, rash, dizziness | Nevirapine comes as a tablet, an extended-release tablet, and a suspension (liquid) to take by mouth with or without food. The tablet and suspension are usually taken once a day for 2 weeks and then twice a day after the first 2 weeks. The extended-release tablet is usually taken once a day, following at least two weeks of treatment with regular nevirapine tablets or suspension. |
| NNRTIs | Rilpivirine (RPV) | Edurant | 5/20/11 | fever, skin blisters, mouth sores, redness or swelling of the eyes (conjunctivitis), swelling of the face, lips, mouth, tongue, or throat, trouble breathing or swallowing, pain on the right side of the stomach (abdominal area, dark-colored urine "tea colored", Change in liver enzymes, feeling sad or hopeless, feeling anxious or restless, depression, headache, trouble sleeping (insomnia), and rash. | Rilpivirine comes as a tablet to take by mouth. It is usually taken with a meal once a day. |
| PIs | Atazanavir (ATV) | Reyataz | 6/20/03 | Skin rash, Liver problems, Chronic kidney disease, Kidney stones, Gallbladder stones, Yellowing of your skin or the white part of your eyes, New or worsening diabetes and high blood sugar, Changes in your immune system (Immune Reconstitution Syndrome), Changes in body fat, Increased bleeding problems, nausea, headache, stomach-area pain, vomiting, trouble sleeping, numbness, tingling, or burning of hands or feet, dizziness, muscle pain, diarrhea, depression, and fever. | Atazanavir comes as a capsule and as a powder to take by mouth. The capsule and powder are usually taken once a day with a meal or snack. Take atazanavir at around the same time every day. |
| PIs | Darunavir (DRV) | Prezista | 6/23/06 | headache, diarrhea, vomiting, stomach pain, constipation, rash, peeling or blistering skin, mouth sores, red, swollen, itchy, or teary eyes, muscle or joint aches, fever, swelling, tenderness, redness, or other signs of infection, nausea, extreme tiredness, loss of appetite, pain in the upper right part of the stomach, yellowing of the skin or eyes, pale or dark stools | Darunavir comes as a tablet and oral suspension (liquid) to take by mouth. It is usually taken with food and with ritonavir once or twice a day. Take darunavir at around the same time(s) every day. |
| PIs | Fosamprenavir (FPV) | Lexiva | 10/20/2003 | diarrhea, nausea, vomiting, headache, extreme tiredness, rash, itching, hives, blisters, or peeling skin, difficulty breathing or swallowing, swelling of your face, eyes, lips, tongue, or throat, sore throat, fever, chills, cough, and other signs of infection, back or side pain, blood in urine, pain when urinating | Fosamprenavir comes as a tablet and a suspension (liquid) to take by mouth. It is usually taken once or twice a day. The tablets can be taken with or without food. In patients at least 18 years old, the suspension should be taken without food. In patients younger than 18 years old, the suspension should be taken with food. |

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| PIs | Indinavir (IDV) | Crixivan | 3/13/1996 | rash, hives, itching, peeling or blistering skin, back pain, pain in the side of your body, middle to lower stomach pain, blood in urine, muscle pain or weakness, nausea, excessive tiredness, unusual bleeding or bruising, loss of appetite, pain in the upper right part of your stomach, flu-like symptoms, dark yellow or brown urine, yellowing of the skin or eyes, shortness of breath, fast heartbeat, confusion, dizziness, headache, paleness | Indinavir comes as a capsule to take by mouth. It is usually taken every 8 hours (three times a day). Take indinavir at around the same times every day. |
| PIs | Lopinavir + ritonavir (LPV/r) | Kaletra | 9/15/2000 | weakness, diarrhea, gas, heartburn, weight loss, headache, difficulty falling asleep or staying asleep, muscle pain, numbness, burning, or tingling in the hands or feet, stomach pain, nausea, and vomiting, extreme tiredness, loss of appetite, pain in the upper right part of the stomach, yellowing of the skin or eyes, itchy skin, dizziness, lightheadedness, fainting, irregular heartbeat, blisters, rash | The combination of lopinavir and ritonavir comes as a tablet and a solution (liquid) to take by mouth. It is usually taken twice a day, but may be taken once a day by certain adults. The solution must be taken with food. The tablets may be taken with or without food. If you are using the solution, shake it well before each use to mix the medication evenly. Use a dose-measuring spoon or cup to measure the correct amount of liquid for each dose, not a regular household spoon. |
| PIs | Nelfinavir (NFV) | Viracept | 4/30/2003 | diarrhea, nausea, gas, stomach pain, loss of appetite, rash, hives, itching, difficulty breathing or swallowing | Nelfinavir comes as a tablet and a powder to take by mouth. It is usually taken two to three times a day with food. Take nelfinavir at around the same times every day. |
| PIs | Ritonavir (RTV) | Norvir | 6/29/1999 | drowsiness, diarrhea, gas, heartburn, change in ability to taste food, headache, numbness, burning, or tingling of the hands, feet, or area around the mouth, muscle or joint pain, stomach pain, nausea, and vomiting, blistering or peeling of the skin, rash, hives, swelling of the eyes, face, tongue, lips, or throat, tightening of the throat, difficulty breathing or swallowing, excessive tiredness, lack of energy, loss of appetite, pain in the upper right part of the stomach, yellowing of the skin or eyes, dizziness, lightheadedness, loss of consciousness, irregular heartbeat | Ritonavir comes as a capsule, a tablet, and a solution (liquid) to take by mouth. It is usually taken twice a day with meals. |
| PIs | Saquinavir (SQV) | Invirase/ Fortovase | 12/17/2004 | diarrhea, stomach pain, nausea, vomiting, constipation, tiredness, back pain, dry lips or skin, fever, rash, itching, swelling of eyes, face, mouth, throat, or lips, difficulty breathing or swallowing, blistering or peeling skin, yellowing of the skin or eyes, loss of appetite, flu like symptoms, extreme tiredness, dark colored urine, light colored stools, pain in the upper right part of the stomach, dizziness, lightheadedness, slow, irregular, or pounding heartbeat, fainting | Saquinavir comes as a capsule and a tablet to take by mouth. It is usually taken at the same time as ritonavir (Norvir) two times a day within 2 hours after a full meal. It may be easier to remember to take saquinavir if you take it with meals. Take saquinavir at around the same times every day. |

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| PIs | Tipranavir (TPV) | Aptivus | 6/22/2005 | diarrhea, weight loss, headache, stomach pain, fever, chills, cough, or other signs of infection, rash, redness, blistering, or peeling of skin, itching, throat tightness, shortness of breath, weakness, numbness and pain, in hands and feet, difficulty breathing or swallowing, muscle or joint pain or stiffness | Tipranavir comes as a capsule and an oral solution (liquid) to take by mouth. If tipranavir is taken with ritonavir capsules or solution, it is usually twice a day with or without food. |
| Integrase Inhibitors | Bictegravir (BIC), Emtricitabine, and Tenofovir | Biktarvy | 2/7/2018 | diarrhea, nausea, vomiting, headache, decreased urination, swelling of feet and ankles, fatigue, shortness of breath, fast breathing, fast or abnormal heartbeat, stomach pain with nausea and vomiting, cold or blue color of the hands and feet, dark yellow or brown urine, light-colored bowel movements, yellowing of skin or eyes, loss of appetite, weakness, fatigue, dizziness or lightheadedness | The combination of bictegravir, emtricitabine, and tenofovir comes as a tablet to take by mouth. It is usually taken once daily with or without food. Take bictegravir, emtricitabine, and tenofovir at around the same time every day. |
| Integrase Inhibitors | Dolutegravir (DTG) | Tivicay | 8/12/2013 | difficulty falling asleep or staying asleep, headache, stomach pain, gas, diarrhea, weight gain, rash, fever, feeling sick, excessive tiredness, muscle or joint pain, blistering or peeling skin, blisters or sores in the mouth, red or swollen eyes, swelling of the eyes, face, lips, mouth, tongue, or throat, difficulty breathing or swallowing, yellow of eyes or skin, dark urine, pale colored bowel movements, nausea, vomiting, loss of appetite, pain in the upper right part of the stomach | Dolutegravir comes as a tablet and as a tablet for suspension (a tablet to dissolve in liquid) to take by mouth. It is usually taken once or twice a day with or without food. Take dolutegravir at around the same time(s) every day. |
| Integrase Inhibitors | Elvitegravir (EVG) | Vitekta | 9/14/2014 | diarrhea, nausea, and headache | VITEKTA must be used in combination with an HIV protease inhibitor coadministered with ritonavir and another antiretroviral drug. Recommended dosage taken once daily with food |
| Integrase Inhibitors | Raltegravir (RAL) | Isentress | 10/12/2007 | Headache, Trouble sleeping, Nausea, Dizziness, Fatigue, High cholesterol, Muscle pain/damage (rhabdomyolysis), Allergic or severe skin reaction (severe rash, face swelling, difficulty breathing) | Adults: The typical dose is 1 tablet (400 mg) twice daily OR for the HD tablet, 2 tablets (1200 mg) once daily Children: The dose is based on the child's weight |
| Fusion Inhibitors | Enfuvirtide (ENF or T-20) | Fuzeon | 3/13/2003 | Injection site reactions, nerve pain or numbness, burning or prickling feeling on your skin, bleeding after the injection, allergic reaction: rash, hives, fever, nausea and vomiting, chills, trouble breathing, swelling of face, eyes, lips or mouth, low blood pressure; pneumonia (cough with fever, fast breathing, shortness of breath), stomach pain, diarrhea, herpes simplex, flu-like symptoms, tiredness, decreased appetite, infected hair follicle, weight loss, pancreas problems, dry mouth, sinus problems, pain in arms and legs, eye infection | FUZEON is available in a single-dose lyophilized powder for injection containing 108 mg enfuvirtide per vial. FUZEON is administered subcutaneously into the upper arm, anterior thigh or abdomen after reconstituting the lyophilized powder containing 108 mg enfuvirtide with 1 mL of Sterile Water for Injection |
| gp120 Attachment Inhibitor | Fostemsavir | Rukobia | 7/2/2020 | Changes in your immune system (Immune Reconstitution Syndrome), Heart rhythm problems (QTc prolongation), Changes in liver function blood tests results | Take one 600-mg tablet twice a day around the same time with or without food. |

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| CCR5 Antagonist | Maraviroc (MVC) | Selzentry | 8/6/2007 | Hepatotoxicity Severe Skin and Hypersensitivity Reactions Cardiovascular Events | SELZENTRY tablets and oral solution are taken twice daily by mouth and may be taken with or without food. SELZENTRY must be given in combination with other antiretroviral medications. The recommended dosage of SELZENTRY differs based on concomitant medications due to drug interactions |
| Post-Attachment Inhibitor or Monoclonal Antibody | Ibalizumab-uiyk | Trogarzo | 3/6/2018 | trouble breathing, cough, swelling in your throat, hot flush, wheezing, nausea, chest pain, vomiting, chest tightness, diarrhea, nausea, dizziness, rash | TROGARZO is available in a single-dose, 2 mL vial containing 150 mg/mL of ibalizumab-uiyk. Each vial delivers approximately 1.33 mL containing 200 mg of ibalizumab-uiyk. TROGARZO is administered intravenously (IV), after diluting the appropriate number of vials in 250 mL of 0.9% Sodium Chloride Injection, USP. Patients should receive a single loading dose of 2,000 mg followed by a maintenance dose of 800 mg every 2 weeks. |