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Dolutegravir

National Cancer Institute

Source

National Cancer Institute. *Dolutegravir*. NCI Thesaurus. Code C121543.

An orally bioavailable integrase strand-transfer inhibitor (INSTI), with activity against human immunodeficiency virus type 1 (HIV-1) infection. Upon oral administration, dolutegravir binds to the active site of integrase, an HIV enzyme that catalyzes the transfer of viral genetic material into human chromosomes. This prevents integrase from binding to retroviral deoxyribonucleic acid (DNA), and blocks the strand transfer step, which is essential for the HIV replication cycle. This prevents HIV-1 replication.