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# Darunavir/Cobicistat

National Cancer Institute

## Source

National Cancer Institute. *Darunavir/Cobicistat*. NCI Thesaurus. Code C157536.

A fixed combination of darunavir, an inhibitor of the human immunodeficiency virus (HIV) protease; and cobicistat, a cytochrome P450 3A (CYP3A) inhibitor that may be used to treat HIV infection. Upon oral administration, darunavir binds to and inhibits the dimerization and catalytic activity of the HIV aspartyl protease. This inhibits the cleavage of HIV-encoded Gag and Gag-Pol polyproteins in virus-infected cells, which prevents the formation of mature infectious virions. Cobicistat inhibits CYP3A, thereby limiting the metabolism of darunavir and increases its systemic exposure.