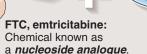
Experts say AIDS prevention pill close

Researchers believe they are close to developing a pill that people could take to avoid getting HIV, the virus that causes AIDS.

> A cocktail of two drugs already used to treat HIV infection, FTC and tenofovir, has shown such promise in monkey studies that human tests are being expanded in the U.S. and Africa



FTC inhibits activity of a viral enzyme, nucleoside reverse transcriptase, which

controls HIV replication

Tenofovir disoproxil fumarate: Chemical known as a nucleotide analogue. Nucleotides are the building blocks of RNA and DNA. Drug

stops HIV incorporating its RNA into human cell

Inside the HIV virus

Protein capsule

Binders: Dock with receptors on surface of human host cell

Capsid: Contains genetic material RNA and three enzymes, reverse transcriptase, protease and integrase

RNA strand

These enzymes enable RNA to replicate once inside host cell

Truvada emtricitabine/tenofovil

disoproxil fumarate

200ma/300mg

30 Tablets

CHILAD

R only

Truvada blocks enzymes and stops **HIV** reproducing

Sources: Gilead Sciences.

U.S. Centers for Disease Control and Prevention © GRAPHIC NEWS