

SUPPLEMENTAL

Primary Anti-Viral Mechanism

Humavir inhibits viral fusion to cell membrane receptors, either at the time of initial exposure or during the viral shedding phase after infection, when new viruses are released by an infected cell.

Humavir's amino acid enhancements amplify its anti-viral efficacy as well as the product's ability to control inflammation at the cellular level.

One molecule. Highly purified.

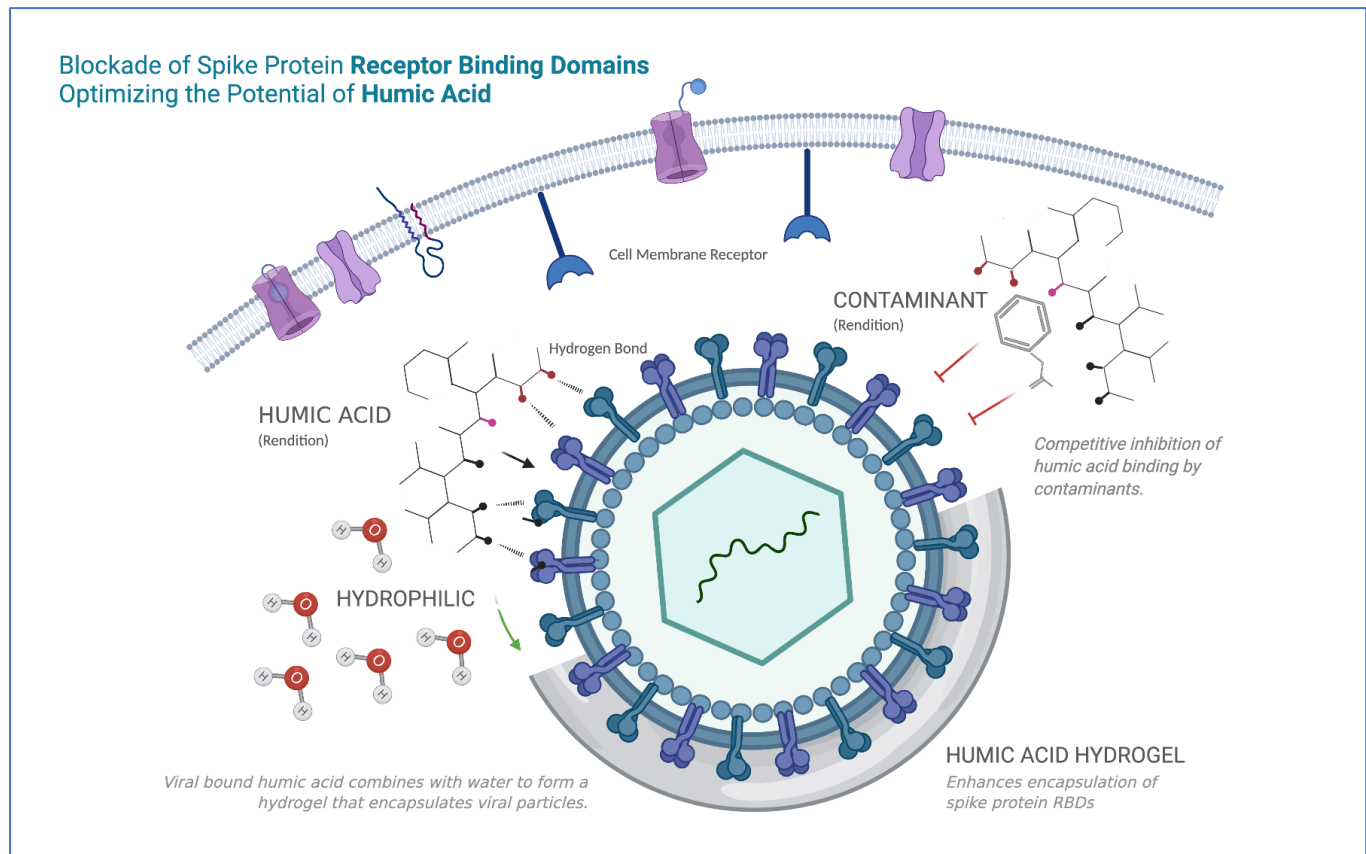
Humavir's anti-viral potential depends on a multi-step purification process that isolates humic acid from contaminants in the soil.

Independent third-party assays ensure that all batches of Humavir contain a *minimum humic acid purity of 95%* for maximal effectiveness before any enhancements.

Primary mechanism of action.

Humavir seeks out viral receptor binding domains (spike proteins) and prevents their binding to cell membrane receptors. Product enhancements anchor humic acid to its viral targets. Binding efficacy is greatest for enveloped viruses. (Shown below)

Humavir's humic acid component also targets intracellular processes of virally infected cells.



References.

Broad Spectrum Antiviral Effectiveness of Natural and Synthetic Humates; Virology Branch, Antiviral Research & Antimicrobial Chemistry Program, Division of Microbiology & Infectious Diseases; Screening & Testing Program for Antiviral, Immunomodulatory, Anti-tumor and/or Drug Delivery Activities, National Institutes of Allergy & Infectious Diseases, National Institute of Health (NIH), August 9, 2002

Kornilaeva GV, Siniavin AE, Schultz A, et al. The Differential Anti-HIV Effect of a New Humic Substance-Derived Preparation in Diverse Cells of the Immune System. *Acta Naturae*. 2019;11(2):68-76. doi:10.32607/20758251-2019-11-2-68-76

Pant, K., Yadav, A., Gupta, P. et al. Humic acid inhibits HBV-induced autophagosome formation and induces apoptosis in HBV-transfected Hep G2 cells. *Sci Rep* 6, 34496 (2016). <https://doi.org/10.1038/srep34496>

For a complete list of references, see the AH Humavir Supplement Bibliography.

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