

Discovery of Potent Anti-Mpro Inhibitors for Covid-19 Treatment

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Categories:

- Chemistry and Chemical Analysis

Keywords:

- Chemistry and Chemical Analysis
- Chloropyridyl Ester
- Coronavirus
- COVID-19
- COVID-19 Treatment
- Mpro Inhibitors
- Vaccines
- Vero Cells

Researchers at Purdue University have discovered that a potent anti-Mpro inhibitor to be used to treat COVID-19. The anti-Mpro inhibitor is derived from Chloropyridyl ester derivatives. These inhibitors have shown that they have a strong antiviral potency against SARS-COV-2 in VERO cells. VERO cells are a lineage of cell cultures that have been derived from the kidneys of an African green monkey. This inhibitor can block COVID-19 in cell culture assay. This technology can be used to create COVID-19 vaccines. It can also be used in the treatment of COVID-19 patients so that it does not further affect them. This approach is just as effective as Remdesivir, a drug that has shown to help treat patients with COVID-19.

Potential Application:

- Treating Covid-19
- Preventing Covid-19
- Covid-19 Vaccines

Technology Validation: Tested in vero cells.

People:

- Ghosh, Arun K (Project leader)
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Intellectual Property:

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