Broad-spectrum Antiviral Inhibits SARS-CoV-2

LABLE BROAD-SPECTRUM ANTIVERAL INDURITS SARS-GA

nit	1411
at NHC even percet level-spectrum activity	1.00
MERS-CoV, and their related but-CoV in primary	12
dial colleges.	1
NHC is poweredy antivited against the newly	
2 as well as against communities benefing an artists	1.0
our macheoraly analog inhibition, nonderbia (RDV)	
al therapouric administration EIDD 2803, as ord	
(N477-badespeyridise-57-isopergellener)	
r function, reduced virus tiers and and similarities	15.4
IRS. and MERS CoV infected may	21
	10
to be through Irifail where delocations transition	
te in virial ENA.	



Disclaimer: This article is a summary of Research article by Sheahan et al, Pre-print published on BioRxiv. This research article at the time of writing this summary has not been peerreviewed.

SARS-CoV-2 is a zoonotic virus which causes the disease COVID-19 and there are currently no approved therapies. Sheahan *et al* recently pre-published a paper that states that ribonucleoside analog β -D-N4-hydroxycytidine (NHC, EIDD-1931) has broad spectrum antiviral activity against SARS-CoV 2, MERS-CoV, SARS-CoV, and related zoonotic group 2b or 2c Bat-CoV. The researchers also stated that there is an increased potency against a coronavirus bearing resistance mutations to another nucleoside analog inhibitor.

EIDD-2801, an orally bioavailable NHC-prodrug (b-D-N4-

hydroxycytidine-5'-isopropyl ester) was also shown to improve pulmonary function and reduce virus titre in mice infected with SARS-CoV or MERS-CoV. NHC/EIDD-2801 was shown to be potent against multiple coronaviruses and therapeutically effective which highlights its potential as an effective antiviral against SARS-CoV-2 and other future zoonotic coronaviruses.

Journal Article: <u>BioRxiv – Sheahan, T.P. et al. An orally</u> <u>bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 and</u> <u>multiple endemic, epidemic and bat coronavirus</u>

Article by Bonamy Holtak