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Inhibitors, Screening Libraries, Proteins

# Arenavirus

Arenavirus genome includes two ambisense RNA segments that encode only four viral proteins: the envelope glycoprotein precursor, nucle-ocapsid protein, matrix zinc-binding (Z) protein and the large (L) RNA-dependent RNA polymerase (RdRp). The L protein is a multi-domain machinery with both transcription and replication activities. Similar to other segmented negative-sense RNA viruses (sNSVs), the replication of arenavirus genome is de novo initiated and involves a complementary RNA (cRNA) intermediate, whereas the transcription process presumably requires a host mRNA-derived primer captured by the viral polymerase through cap snatching.

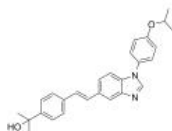
Arenaviruses can cause severe haemorrhagic fever and neurological diseases in humans and other animals, exemplified by Lassa mammarenavirus, Machupo mammarenavirus and lymphocytic choriomeningitis virus, posing great threats to public health. These viruses encode a large multi-domain RNA-dependent RNA polymerase for transcription and replication of the viral genome. Viral polymerases are one of the leading antiviral therapeutic targets.

## Arenavirus Inhibitors & Activators

### (E)-LHF-535

Cat. No.: HY-112762A

(E)-LHF-535 is the E-isomer of LHF-535. LHF-535 is an antiviral agent extracted from patent WO2013123215A2, Compound 38, has  $EC_{50}$ s of <1  $\mu$ M, <1  $\mu$ M, <1  $\mu$ M, and 1-10  $\mu$ M for Lassa, Machupo, Junin, and VSVg virus, respectively.

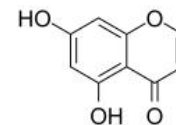


**Purity:** 99.71%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM  $\times$  1 mL, 5 mg, 10 mg, 50 mg

### 5,7-Dihydroxychromone

Cat. No.: HY-N1970

5,7-Dihydroxychromone, the extract of *Cudrania tricuspidata*, activates Nrf2/ARE signal and exerts neuroprotective effects against 6-hydroxydopamine (6-OHDA)-induced oxidative stress and apoptosis.



**Purity:** 99.98%  
**Clinical Data:** No Development Reported  
**Size:** 5 mg, 10 mg

### GP(33-41)

Cat. No.: HY-P0323

GP(33-41), a 9-aa-long peptide, is the optimal sequence of the GP1 epitope of lymphocytic choriomeningitis virus, and can upregulate H-2D<sup>b</sup> molecules at the RMA-S (Db Kb) cell surface with a  $SC_{50}$  of 344 nM.

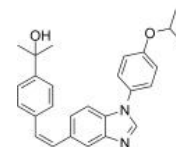
KAVYNFATC

**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg, 10 mg

### LHF-535

Cat. No.: HY-112762

LHF-535 is an antiviral agent extracted from patent WO2013123215A2, Compound 38, has  $EC_{50}$ s of <1  $\mu$ M, <1  $\mu$ M, <1  $\mu$ M, and 1-10  $\mu$ M for Lassa, Machupo, Junin, and VSVg virus, respectively.



**Purity:** 99.20%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM  $\times$  1 mL, 5 mg, 10 mg, 50 mg, 100 mg

### Nucleoprotein (396-404)

(NP 396)

Cat. No.: HY-P1571

Nucleoprotein (396-404) is the 396 to 404 fragment of lymphocytic choriomeningitis virus (LCMV). Nucleoprotein (396-404) is the H-2D(b)-restricted immunodominant epitope and can be used as a molecular model of viral antigen.

FQPQNGQFI

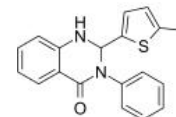
**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg, 10 mg

### Retro-2 cycl

(RN 1-001)

Cat. No.: HY-114698

Retro-2 cycl (RN 1-001) is a dihydroquinazolinone (DHQZ) inhibitor of retrograde trafficking. Retro-2 cycl (RN 1-001) inhibits JCPyV and HPV16 pseudovirus with  $IC_{50}$ s of 54  $\mu$ M and 160  $\mu$ M, respectively. Antiviral agent.

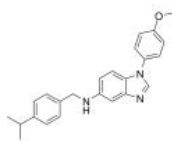


**Purity:** 99.86%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM  $\times$  1 mL, 5 mg, 10 mg, 50 mg, 100 mg

### ST-193

Cat. No.: HY-101441

ST-193 is a potent broad-spectrum arenavirus inhibitor; inhibits Guanarito, Junin, Lassa and Machupo virus with  $IC_{50}$  values of 0.44, 0.62, 1.4 and 3.1 nM, respectively.

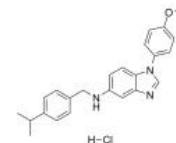


**Purity:** 99.86%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM  $\times$  1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### ST-193 hydrochloride

Cat. No.: HY-101441A

ST-193 hydrochloride is a potent broad-spectrum arenavirus inhibitor; inhibits Guanarito, Junin, Lassa and Machupo virus with  $IC_{50}$  values of 0.44, 0.62, 1.4 and 3.1 nM, respectively.



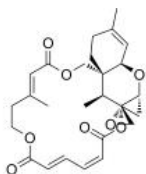
**Purity:** 98.54%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM  $\times$  1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

### Verrucarin J

(Muconomycin B)

Cat. No.: HY-N10113

Verrucarin J (Muconomycin B) is a metabolite of the *Myrothecium* fungus family. Verrucarin J generates reactive oxygen species (ROS) and induces apoptosis of cancer cell lines, such as A549, HCT 116 and SW-620 cells.



**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 5 mg, 10 mg, 25 mg