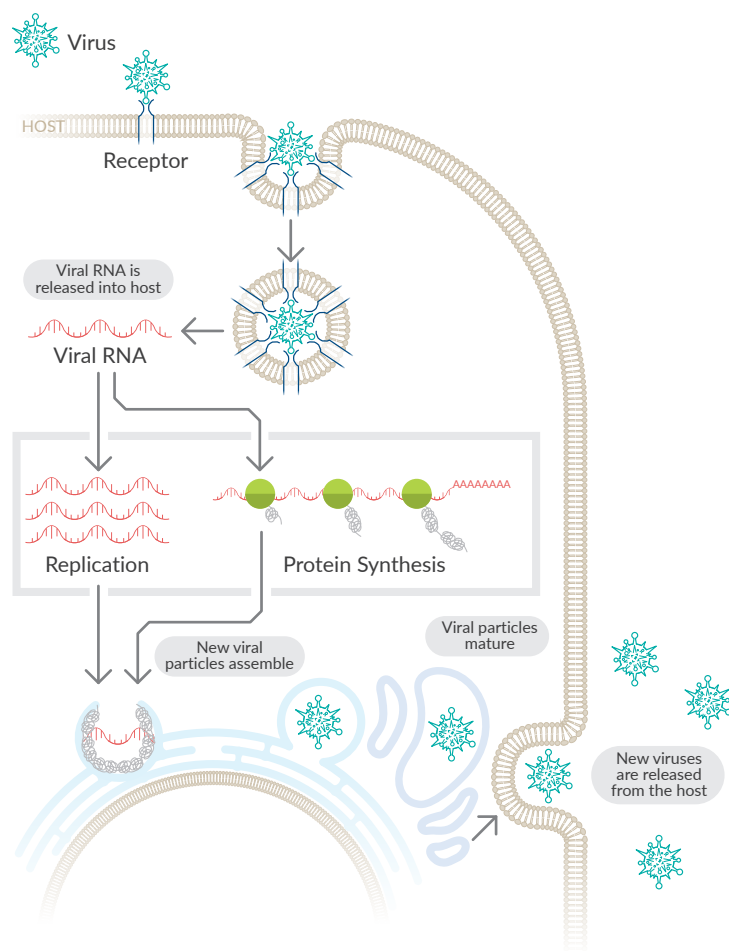


# Antiviral Research Tools

Cayman provides a diverse set of antiviral agents that can be used to study the treatment and prevention of infectious diseases and other health challenges. This important set of tools can be used to further understand the growth cycle of harmful viruses and key signaling pathways, including how the body's immune system responds to eliminate infections.



Distributed by



Host infection and viral replication.

## CONTINUE INSIDE THIS BROCHURE TO EXPLORE:

- Entry/Fusion Inhibitors
- Endosomal pH Regulators
- Protease & Neuraminidase Inhibitors
- DNA & RNA Polymerase Inhibitors
- Oxysterol-Binding Protein Inhibitors
- Reverse Transcriptase Inhibitors
- Integrase Inhibitors
- Coronavirus Research Tools Spotlight

## Simplify Screening & Hit-Seeking

### Antiviral Screening Library

Item No. 30390

A library of more than 410 antiviral-associated compounds including those with antiviral activity against HIV, hepatitis B virus, coronaviruses, and more.

### SARS-CoV-2 Screening Library

Item No. 9003509

A made-to-order compound library curated through *in silico* modeling using Maestro (Schrödinger Suite) software by screening over 70,000 compounds targeting SARS-CoV-2 proteins.



# Antiviral Compounds

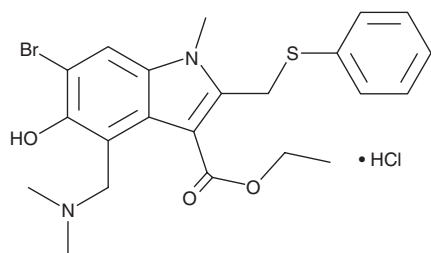
## Entry/Fusion Inhibitors

### FEATURED PRODUCT

#### Umifenovir (hydrochloride)

Item No. 16933

A broad-spectrum antiviral that blocks viral fusion with target membranes, prohibiting viral entry into cells. It is effective against numerous viruses, including influenza A, B, and C, as well as hepatitis B and C.



### Abl Kinase Inhibitors

Abl kinases are composed of distinct domains that enable them to act as scaffolds for signaling complexes and to regulate protein function through phosphorylation of downstream targets. Blocking virus-host fusion with Abl kinase inhibitors is one antiviral strategy since this kinase activity is required for viral entry.

Item No.	Product Name
16253	GNF-2
16254	GNF-5
13139	Imatinib (mesylate)
11497	Saracatinib

See all Abl family & Bcr-Abl inhibitors at [www.caymanchem.com](http://www.caymanchem.com)

## Endosomal pH Regulators

Viruses entering host cells by endocytosis require an acidic pH in endosomal vesicles for virus-host fusion and to carry out the replication process. Agents that interfere with endosome-mediated viral entry can impair virus replication.

### Endosomal Acidification Inhibitors

Item No.	Product Name
14194	Chloroquine (phosphate)
17911	Hydroxychloroquine (sulfate)

## Protease & Neuraminidase Inhibitors

Protease inhibitors block the viral life cycle by selectively preventing proteolytic cleavage that is essential to forming the replicase complex for viral replication. Viral neuraminidase inhibitors prevent the mobilization of the virus to and from the site of infection.

### HCV Protease Inhibitors

Item No.	Product Name
20835	Asunaprevir
18379	Boceprevir
22144	Simeprevir (sodium salt)
20054	Telaprevir

### HIV Protease Inhibitors

Item No.	Product Name
15866	Darunavir
13854	Lopinavir
15144	Nelfinavir (mesylate)
9001893	Saquinavir (mesylate)

### Influenza Neuraminidase Inhibitors

Item No.	Product Name
15779	Oseltamivir Acid
23765	Peramivir
15123	Zanamivir

See all protease & neuraminidase inhibitors at [www.caymanchem.com](http://www.caymanchem.com)

## DNA & RNA Polymerase Inhibitors

Viruses encode their own polymerases for transcription and replication. A class of nucleotide analogs has been developed as antivirals to confuse polymerase activity, thus counteracting viral replication.

### RdRp Inhibitors

Item No.	Product Name
30469	GS-441524
15402	PSI-7977
30354	Remdesivir
16757	Ribavirin
23384	T-705 (Favipiravir)

See all DNA & RNA polymerase inhibitors at [www.caymanchem.com](http://www.caymanchem.com)

## Oxysterol-Binding Protein Inhibitors

Oxysterol-binding protein (OSBP) plays a vital role in producing the membrane-bound viral replication organelles that form at the membrane contact sites between the ER and Golgi. OSBP-targeted compounds interfere with virus replication.

### Oxysterol-Binding Protein Inhibitors

Item No.	Product Name
13288	Itraconazole
30310	OSW-1

## Reverse Transcriptase Inhibitors

Retroviruses reverse transcribe viral RNA into DNA for insertion into the host DNA. Nucleoside analogs as well as non-nucleoside compounds have been developed to prevent viral replication by inhibiting reverse transcriptase activity.

### Reverse Transcriptase Inhibitors

Item No.	Product Name
14412	Efavirenz
18514	Lamivudine
21559	Rilpivirine
13874	Tenofovir
15492	Zidovudine

See all reverse transcriptase inhibitors at [www.caymanchem.com](http://www.caymanchem.com)

## Integrase Inhibitors

Retroviral integrases integrate viral DNA into host cell DNA, forming a provirus that can be activated to produce viral proteins. Integrase inhibitors block incorporation of the virus into host DNA by preventing covalent bond formation with host DNA.

### Integrase Inhibitors

Item No.	Product Name
26532	Bictegravir
24964	3,5-Dicaffeoylquinic Acid
22191	Dolutegravir
16071	Raltegravir (potassium salt)
70740	U-73122

See all integrase inhibitors at [www.caymanchem.com](http://www.caymanchem.com)

## EXPLORE MORE THAN 450 ANTIVIRALS

Use the Biochemicals facet when searching products to view all antiviral inhibitors at [www.caymanchem.com/search](http://www.caymanchem.com/search)

- DNA & RNA Polymerase Inhibitors
- Entry/Fusion Inhibitors
- Integrase Inhibitors
- Non-Nucleoside Reverse Transcriptase Inhibitors (NNRTIs)
- Protease Inhibitors and More!

## NEW ISSUE OF CAYMAN CURRENTS

# ANTIVIRAL STRATEGIES

## FOR EMERGING INFECTIOUS DISEASES

- Using Existing Therapeutics Against SARS-CoV-2
- SARS-CoV-2 Research Tools
- Antiviral Compounds & Libraries
- Special Feature: Viral Infection Life Cycle
- Vaccine Development Considerations
- Host Immune Response
- Immunopeptidome Profiling Services



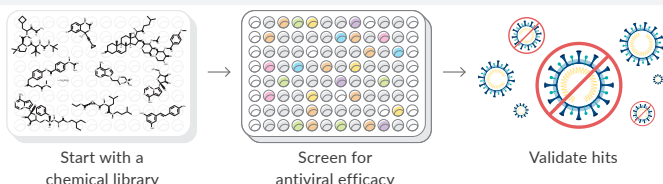
**FREE DOWNLOAD AT**

[WWW.CAYMANCHEM.COM/ANTIVIRALCURRENT](http://WWW.CAYMANCHEM.COM/ANTIVIRALCURRENT)

# Coronavirus Research Tools

Cayman is developing new tools and building resources to support scientists studying SARS-CoV-2. In addition to our diverse set of antiviral agents that can be used to target coronavirus-host infection and replication, we offer ACE2 antibodies, SARS-CoV-2 proteins, and SARS-CoV-2 serological assays and validation control sets to better understand the virus and inform approaches to anti-infective therapies.

## Coronavirus Drug Discovery



### Screening Libraries & Assays

Compound libraries and inhibitor screening platforms designed to speed up the process of identifying drugs that might be helpful to treat COVID-19.

Item No.	Product Name
31530	Anti-Inflammatory Screening Library
30390	Antiviral Screening Library
23538	FDA-Approved Drugs Screening Library
9003509	SARS-CoV-2 Screening Library
502100	ACE2 Inhibitor Screening Assay Kit
502050	SARS-CoV-2 Spike-ACE2 Interaction Inhibitor Screening Assay Kit

### Coronavirus Proteins & Antibodies

Item No.	Product Name
30589	SARS-CoV-2 nsp13 Helicase ( <i>E. coli</i> expressed)
30427	SARS-CoV-2 Nucleocapsid Protein
30429	SARS-CoV-2 Spike Glycoprotein Receptor Binding Domain (human IgG1 Fc-tagged)
31429	SARS-CoV/SARS-CoV-2 Nucleocapsid Protein Polyclonal Antibody
30832	SARS-CoV/SARS-CoV-2 Spike Glycoprotein Chimeric Monoclonal Antibody

See all coronavirus antibodies & proteins at [www.caymanchem.com](http://www.caymanchem.com)

### ACE2 Antibodies

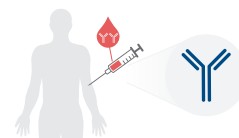
Item No.	Product Name
30582	ACE2 (human) Monoclonal Antibody (Clone AC18F)
30583	ACE2 (human) Monoclonal Antibody - Biotinylated (Clone AC18F)
30584	ACE2 (human) Monoclonal Antibody (Clone AC384)

See all ACE2 antibodies at [www.caymanchem.com](http://www.caymanchem.com)

## Coronavirus Serological Testing & Validation

### SARS-CoV-2 ELISAs

Research-use-only screens for neutralizing antibodies against SARS-CoV-2 proteins formed after infection.



Item No.	Product Name
502070	SARS-CoV-2 Neutralizing Antibody Detection ELISA Kit
31063	Q-Plex™ SARS-CoV-2 Human IgG (4-Plex)

### SARS-CoV-2 Neutralizing Antibody & Positive/Negative Controls

SARS-CoV-2 neutralizing antibody and human plasma or serum either spiked or free of neutralizing IgG antibody for use as validating controls.

Item No.	Product Name
32526	SARS-CoV-2 (human) Neutralizing Recombinant Antibody
502080	SARS-CoV-2 Neutralizing Antibody Human Plasma Control Set
502090	SARS-CoV-2 Neutralizing Antibody Human Serum Control Set
31568	SARS-CoV-2 Neutralizing Antibody-Positive Human Serum
31567	SARS-CoV-2 Neutralizing Antibody-Negative Human Serum
31569	SARS-CoV-2 Neutralizing Antibody-Negative Pre-pandemic Human Serum

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