

# Coronavirus-3C-like-proteinase inhibitors - Pipeline Insight, 2022

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## Abstracts

This report can be delivered to the clients within 2-3 Business Days

DelveInsight's, "Coronavirus-3C-like-proteinase inhibitors - Pipeline Insight, 2022" report provides comprehensive insights about 10+ companies and 10+ pipeline drugs in Coronavirus-3C-like-proteinase inhibitors pipeline landscape. It covers the pipeline drug profiles, including clinical and nonclinical stage products. It also covers the therapeutics assessment by product type, stage, route of administration, and molecule type. It further highlights the inactive pipeline products in this space.

### Geography Covered

Global coverage

### Coronavirus-3C-like-proteinase inhibitors Understanding

#### Coronavirus-3C-like-proteinase inhibitors: Overview

The 3C-like protease (3CLpro), which hydrolyses viral polyproteins to produce functional proteins, is essential for coronavirus replication and is considered an important therapeutic target for diseases caused by coronaviruses, including COVID-19. Coronavirus 3CLpro is a cysteine protease that has two N-terminal domains containing two  $\beta$ -barrel chymotrypsin-like folds (8–10). The active site of 3CLpro is located in the cleft between the two domains and is characterized by a catalytic Cys-His dyad. Various studies are going on to study this protein in order to identify therapeutics against the SARS-CoV in particular and other pathogenic coronaviruses. A number of patented

inhibitors with promising clinical potential have been developed through different methods.

## Report Highlights

The companies and academics are working to assess challenges and seek opportunities that could influence Coronavirus-3C-like-proteinase inhibitors R&D. The therapies under development are focused on novel approaches for Coronavirus-3C-like-proteinase inhibitors.

## Coronavirus-3C-like-proteinase inhibitors Emerging Drugs Chapters

This segment of the Coronavirus-3C-like-proteinase inhibitors report encloses its detailed analysis of various drugs in different stages of clinical development, including phase III, II, I, preclinical and Discovery. It also helps to understand clinical trial details, expressive pharmacological action, agreements and collaborations, and the latest news and press releases.

## Coronavirus-3C-like-proteinase inhibitors Emerging Drugs

### PF 07321332: Pfizer

PF-07321332 is a SARS-CoV-2-3CL protease inhibitor being developed by Pfizer. Pfizer recently initiated a trial to test PF-07321332 for the Prevention of COVID-19. The phase II/III Evaluation of Protease Inhibition for COVID-19 in Post-Exposure Prophylaxis (EPIC-PEP) trial will test PF-07321332 in up to 2,660 adults aged 18 and older who live in the same household as someone with a confirmed symptomatic COVID-19 infection. It is also being evaluated in another trial of symptomatic, non-hospitalized adult patients with COVID-19.

### S-217622: Shionogi

S-217622 is a 3CL protease inhibitor discovered by Shionogi. SARS-CoV-2 has an enzyme called 3CL protease, which is essential for the duplication of the virus. S-217622 suppresses the duplication of SARS-CoV-2 by selectively inhibiting 3CL protease. In non-clinical trials using SARS-CoV-2 infected animals, it has been

confirmed that the viral load is rapidly and significantly reduced. In the Japanese phase 1 clinical trial that just started, we will confirm the pharmacokinetics, safety and tolerability of this drug in healthy adults.

Further product details are provided in the report.....

### Coronavirus-3C-like-proteinase inhibitors: Therapeutic Assessment

This segment of the report provides insights about the different Coronavirus-3C-like-proteinase inhibitors drugs segregated based on following parameters that define the scope of the report, such as:

#### Major Players working on Coronavirus-3C-like-proteinase inhibitors

There are approx. 10+ key companies which are developing the Coronavirus-3C-like-proteinase inhibitors. The companies which have their Coronavirus-3C-like-proteinase inhibitors drug candidates in the most advanced stage, i.e. Phase II/III include, Pfizer.

#### Phases

DelveInsight's report covers around 10+ products under different phases of clinical development like

Late-stage products (Phase III and

Mid-stage products (Phase II and

Early-stage products (Phase I/II and Phase I) along with the details of

Pre-clinical and Discovery stage candidates

Discontinued & Inactive candidates

Route of Administration

Coronavirus-3C-like-proteinase inhibitors pipeline report provides the therapeutic

assessment of the pipeline drugs by the Route of Administration. Products have been categorized under various ROAs such as

Infusion

Intradermal

Intramuscular

Intranasal

Intravaginal

Oral

Parenteral

Subcutaneous

Topical

Molecule Type

Products have been categorized under various Molecule types such as

Vaccines

Monoclonal Antibody

Peptides

Polymer

Small molecule

Product Type

Drugs have been categorized under various product types like Mono, Combination and Mono/Combination.

### Coronavirus-3C-like-proteinase inhibitors: Pipeline Development Activities

The report provides insights into different therapeutic candidates in phase III, II, I, preclinical and discovery stage. It also analyses Coronavirus-3C-like-proteinase inhibitors therapeutic drugs key players involved in developing key drugs.

### Pipeline Development Activities

The report covers the detailed information of collaborations, acquisition and merger, licensing along with a thorough therapeutic assessment of emerging Coronavirus-3C-like-proteinase inhibitors drugs.

### Coronavirus-3C-like-proteinase inhibitors Report Insights

- Coronavirus-3C-like-proteinase inhibitors Pipeline Analysis

- Therapeutic Assessment

- Unmet Needs

- Impact of Drugs

### Coronavirus-3C-like-proteinase inhibitors Report Assessment

- Pipeline Product Profiles

- Therapeutic Assessment

- Pipeline Assessment

- Inactive drugs assessment

- Unmet Needs

## Key Questions

### Current Scenario and Emerging Therapies:

How many companies are developing Coronavirus-3C-like-proteinase inhibitors drugs?

How many Coronavirus-3C-like-proteinase inhibitors drugs are developed by each company?

How many emerging drugs are in mid-stage, and late-stage of development for the treatment of Coronavirus-3C-like-proteinase inhibitors?

What are the key collaborations (Industry–Industry, Industry–Academia), Mergers and acquisitions, licensing activities related to the Coronavirus-3C-like-proteinase inhibitors therapeutics?

What are the recent trends, drug types and novel technologies developed to overcome the limitation of existing therapies?

What are the clinical studies going on for Coronavirus-3C-like-proteinase inhibitors and their status?

What are the key designations that have been granted to the emerging drugs?

## Key Players

Pfizer

Shionogi

SyneuRx International (Taiwan) corp

AB Science

Sorrento Therapeutics

Acrivon Therapeutics

Exscientia

Arbutus Biopharma

Cortexyme

Aligos Therapeutics

SOM Biotech

### Key Products

PF 07321332

S-217622

Pentarlandir

PF 07304814

MPI 8

Masitinib

MPI 1121

ACR 368

COR 803

ALG-097111

Eravacycline

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Assessment by Route of Administration

Assessment by Stage and Route of Administration

Assessment by Molecule Type

Assessment by Stage and Molecule Type

Coronavirus-3C-like-proteinase inhibitors – DelveInsight's Analytical Perspective

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Comparative Analysis

PF 07321332: Pfizer

Product Description

Research and Development

Product Development Activities

Drug profiles in the detailed report.....

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Comparative Analysis

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Product Description

Research and Development

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Drug profiles in the detailed report.....

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S 217622: Shionogi

Product Description

Research and Development

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Pre-clinical and Discovery Stage Products



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