

Coronavirus (CoV) proteins in GtoPdb v.2025.3

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Abstract

Coronaviruses are large, often spherical, enveloped, single-stranded positive-sense RNA viruses, ranging in size from 80-220 nm. Their genomes and protein structures are highly conserved. Three coronaviruses have emerged over the last 20 years as serious human pathogens: SARS-CoV was identified as the causative agent in an outbreak in 2002-2003, Middle East respiratory syndrome (MERS) CoV emerged in 2012 and the novel coronavirus SARS-CoV-2 emerged in 2019-2020. SARS-CoV-2 is the virus responsible for the infectious disease termed COVID-19 ([WHO Technical Guidance 2020](#)).

Contents

This is a citation summary for Coronavirus (CoV) proteins in the [Guide to Pharmacology](#) database (GtoPdb). It exists purely as an adjunct to the database to facilitate the recognition of citations to and from the database by citation analyzers. Readers will almost certainly want to visit the relevant sections of the database which are given here under database links.

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Database links

Coronavirus (CoV) proteins

<https://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=1034>

Introduction to Coronavirus (CoV) proteins

<https://www.guidetopharmacology.org/GRAC/FamilyIntroductionForward?familyId=1034>

Targets

Complexes

CoV 2'-O-methyltransferase

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3277>

Targets and Subunits

CoV Envelope protein

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3116>

CoV 3C-like (main) protease

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3111>

CoV Membrane glycoprotein

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3117>

CoV Non-structural protein 6

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3118>

CoV Non-structural protein 7b

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3123>

CoV Non-structural protein 8

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3120>
 CoV Non-structural protein 10
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3275>
 CoV Non-structural protein 13
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3261>
 CoV Non-structural protein 14
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3198>
 CoV Non-structural protein 15
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3206>
 CoV Non-structural protein 16
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3276>
 CoV Nucleoprotein
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3121>
 CoV Papain-like protease
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3132>
 CoV Protein 3a
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3115>
 CoV Protein 7a
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3119>
 CoV Protein 9b
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3122>
 CoV Replicase polypeptide 1a
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3124>
 CoV Replicase polypeptide 1ab
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3125>
 CoV RNA-dependent RNA polymerase
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3139>
 CoV Spike glycoprotein
<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=3114>

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