



Query: PDB ID(s) in (6W02, 6W01, 6W41, 6W4H, 6W4B, 6W61, 6W75, 6VW1, 6W6Y, 6VXS, 6VWW, 6VYO, 6M17, 6M3M, 6LVN, 6LXT, 6M71, 6W9Q, 6YI3, 7BTF)

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Refinements

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SCIENTIFIC NAME OF SOURCE ORGANISM

Clear

- Severe acute respiratory syndrome coronavirus 2 (20)
Homo sapiens (3)

TAXONOMY

Clear

- Riboviria (20)
Eukaryota (3)

EXPERIMENTAL METHOD

Clear

- X-RAY DIFFRACTION (16)
ELECTRON MICROSCOPY (3)
SOLUTION NMR (1)

ENTITY POLYMER TYPE

Clear

- Protein (20)

RESOLUTION (Å)

Clear

- 1.0 - 1.5 (1)
1.5 - 2.0 (5)
2.0 - 2.5 (5)
2.5 - 3.0 (7)
3.0 - 3.5 (1)

RELEASE DATE

Clear

- 2020 - 2024 (20)

ENZYME CLASSIFICATION NAME

Clear

- Hydrolases (3)

MEMBRANE PROTEIN NAME

Clear

Summary

Gallery

Compact

-- Tabular Report --

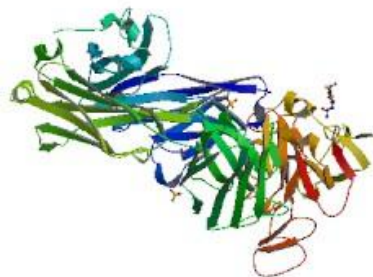
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3D View

6W41

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Crystal structure of SARS-CoV-2 receptor binding domain in complex with human antibody CR3022

Yuan, M., Wu, N.C., Zhu, X.Y., Wilson, I.A.

(2020) Science

Released 2020-03-25

Method X-RAY DIFFRACTION 3.084 Å

Organisms Homo sapiens

Severe acute respiratory syndrome coronavirus 2

Macromolecule CR3022 Fab heavy chain (protein)

CR3022 Fab light chain (protein)

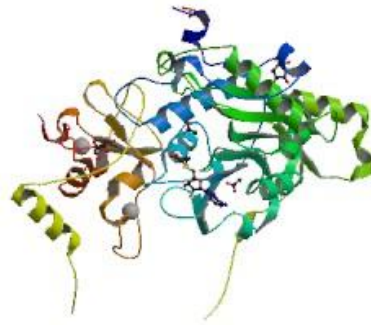
Spike glycoprotein receptor binding domain (protein)

Unique Ligands GOL, NAG, SO4

TRANSMEMBRANE PROTEINS:
ALPHA-HELICAL (1)

SYMMETRY TYPE

Asymmetric (13)
 Cyclic (11)
 Dihedral (3)



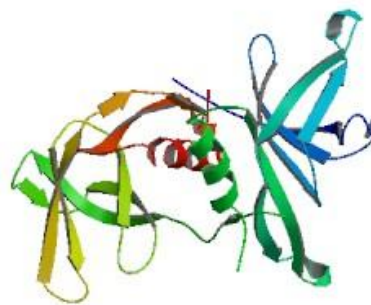
6W4H

1.80 Angstrom Resolution Crystal Structure of NSP16 - NSP10 Complex from SARS-CoV-2

Minasov, G., Shuvalova, L., Rosas-Lemus, M., Kiryukhina, O., Wiersum, G., Godzik, A., Jaroszewski, L., Stogios, P.J., Skarina, T., Satchell, K.J.F., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-18
Method	X-RAY DIFFRACTION 1.8 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-CoV-2 NSP10 (protein) SARS-CoV-2 NSP16 (protein)
Unique Ligands	ACT, BDF, SAM, SO3, ZN



6W4B

The crystal structure of Nsp9 RNA binding protein of SARS CoV-2

Tan, K., Kim, Y., Jedrzejczak, R., Maltseva, N., Endres, M., Michalska, K., Joachimiak, A., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-18
Method	X-RAY DIFFRACTION 2.95 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	Nsp9 replicase protein (protein)


[3D View](#)

6W61

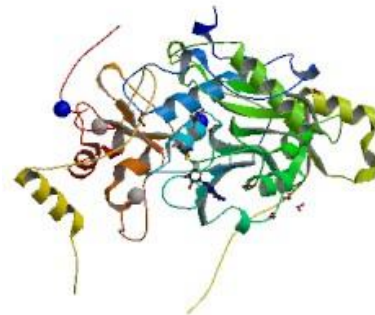
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Crystal Structure of the methyltransferase-stimulatory factor complex of NSP16 and NSP10 from SARS CoV-2.

Kim, Y., Jedrzejczak, R., Maltseva, N., Endres, M., Godzik, A., Joachimiak, A., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-25
Method	X-RAY DIFFRACTION 2 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	2'-O-methyltransferase NSP16 (protein) Stimulatory factor NSP10 (protein)
Unique Ligands	CL, EDO, SAM, ZN


[3D View](#)

6W75

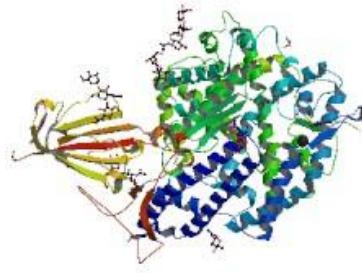
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1.95 Angstrom Resolution Crystal Structure of NSP10 - NSP16 Complex from SARS-CoV-2

Minasov, G., Shuvalova, L., Rosas-Lemus, M., Kiryukhina, O., Wiersum, G., Godzik, A., Jaroszewski, L., Stogios, P.J., Skarina, T., Satchell, K.J.F., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-25
Method	X-RAY DIFFRACTION 1.951 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-CoV-2 NSP10 (protein) SARS-CoV-2 NSP16 (protein)
Unique Ligands	FMT, NA, SAM, ZN


[3D View](#)

6VW1

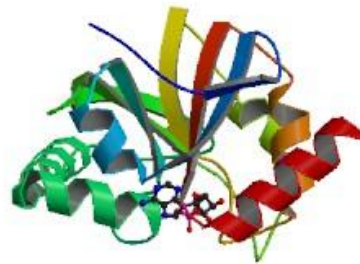
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Structure of 2019-nCoV chimeric receptor-binding domain complexed with its receptor human ACE2

Shang, J., Ye, G., Shi, K., Wan, Y.S., Aihara, H., Li, F.

(2020) Nature

Released	2020-03-04
Method	X-RAY DIFFRACTION 2.68 Å
Organisms	Homo sapiens Severe acute respiratory syndrome coronavirus 2
Macromolecule	2019-nCoV chimeric RBD (protein) Angiotensin-converting enzyme 2 (protein)
Unique Ligands	BMA, CL, EDO, NAG, ZN


[3D View](#)

6W6Y

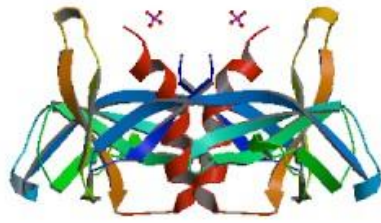
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Crystal Structure of ADP ribose phosphatase of NSP3 from SARS CoV-2 in complex with AMP

Michalska, K., Kim, Y., Jedrzejczak, R., Maltseva, N., Endres, M., Mececar, A., Joachimiak, A., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-25
Method	X-RAY DIFFRACTION 1.451 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-CoV-2 ADP ribose phosphatase (ADRP) (protein)
Unique Ligands	AMP, MES


[3D View](#)

6W9Q

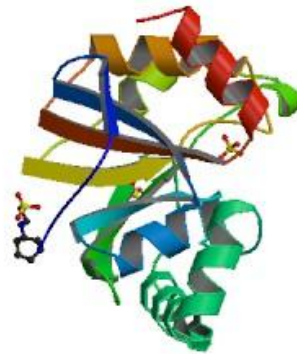
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Peptide-bound SARS-CoV-2 Nsp9 RNA-replicase

Little, D.R., Gully, B.S., Riboldi-Tunncliffe, A., Rossjohn, J.

To be published

Released	2020-04-08
Method	X-RAY DIFFRACTION 2.05 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-CoV-2 3C-like proteinase peptide, Non-structural protein 9 fusion (protein)
Unique Ligands	PO4


[3D View](#)

6VXS

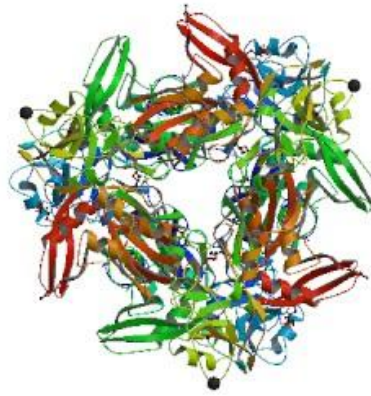
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Crystal Structure of ADP ribose phosphatase of NSP3 from SARS CoV-2

Kim, Y., Jedrzejczak, R., Maltseva, N., Endres, M., Mececar, A., Michalska, K., Joachimiak, A., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-04
Method	X-RAY DIFFRACTION 2.03 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	ADP-ribose-1"-monophosphatase (protein)
Unique Ligands	EDO, NHE, SO4


[3D View](#)

6VWW

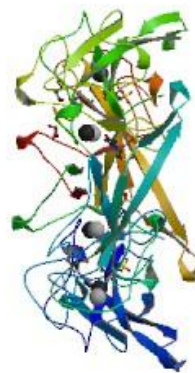
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Crystal Structure of NSP15 Endoribonuclease from SARS CoV-2.

Kim, Y., Jedrzejczak, R., Maltseva, N., Endres, M., Godzik, A., Michalska, K., Joachimiak, A., Center for Structural Genomics of Infectious Diseases (CSGID)

(2020) Biorxiv

Released	2020-03-04
Method	X-RAY DIFFRACTION 2.2 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	NSP15 endoribnuclease (protein)
Unique Ligands	ACY, CL, GOL, MG


[3D View](#)

6VYO

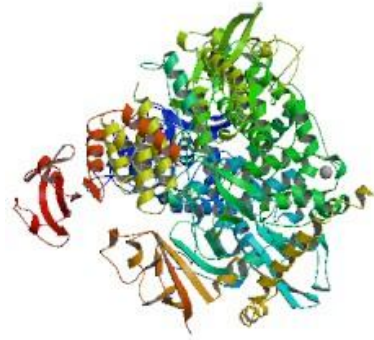
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Crystal structure of RNA binding domain of nucleocapsid phosphoprotein from SARS coronavirus 2

Chang, C., Michalska, K., Jedrzejczak, R., Maltseva, N., Endres, M., Godzik, A., Kim, Y., Joachimiak, A., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-11
Method	X-RAY DIFFRACTION 1.7 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	RNA binding domain of nucleocapsid protein (protein)
Unique Ligands	CL, GOL, MES, ZN


[3D View](#)

7BTF

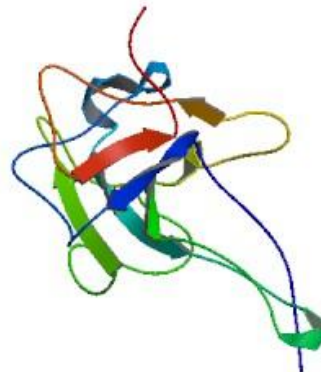
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SARS-CoV-2 RNA-dependent RNA polymerase in complex with cofactors in reduced condition

Gao, Y., Yan, L., Huang, Y., Liu, F., Cao, L., Wang, T., Wang, Q., Lou, Z., Rao, Z.

(2020) Biorxiv

Released	2020-04-08
Method	ELECTRON MICROSCOPY 2.95 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-Cov-2 NSP12 (protein)
	SARS-Cov-2 NSP7 (protein)
	SARS-Cov-2 NSP8 (protein)
Unique Ligands	ZN


[3D View](#)

6YI3

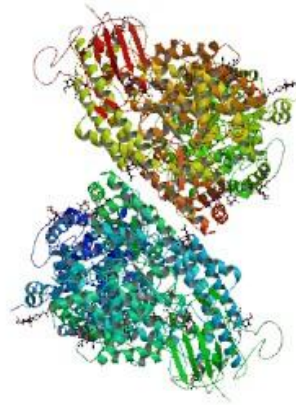
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The N-terminal RNA-binding domain of the SARS-CoV-2 nucleocapsid phosphoprotein

Veverka, V., Boura, E.

To be published

Released	2020-04-08
Method	SOLUTION NMR
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	N-NTD (protein)


[3D View](#)

6M17

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The 2019-nCoV RBD/ACE2-B0AT1 complex

Yan, R.H., Zhang, Y.Y., Li, Y.N., Xia, L., Guo, Y.Y., Zhou, Q.

(2020) *Science* **367**: 1444-1448

Released	2020-03-11
Method	ELECTRON MICROSCOPY 2.9 Å
Organisms	Homo sapiens Severe acute respiratory syndrome coronavirus 2
Macromolecule	Angiotensin-converting enzyme 2 (protein) SARS-coV-2 Receptor Binding Domain (protein) Sodium-dependent neutral amino acid transporter B(0)AT1 (protein)
Unique Ligands	LEU, NAG, ZN


[3D View](#)

6M3M

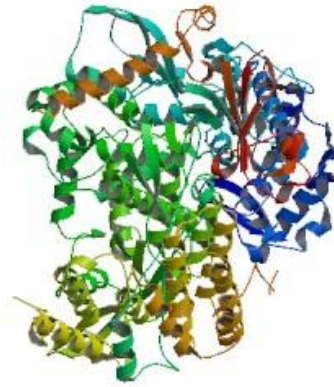
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Crystal structure of SARS-CoV-2 nucleocapsid protein N-terminal RNA binding domain

Chen, S., Kang, S.

To be published

Released	2020-03-18
Method	X-RAY DIFFRACTION 2.7 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-CoV-2 nucleocapsid protein (protein)


[3D View](#)

6M71

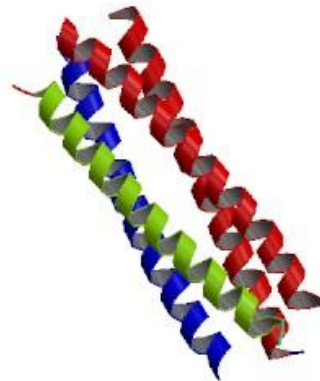
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SARS-Cov-2 RNA-dependent RNA polymerase in complex with cofactors

Gao, Y., Yan, L., Huang, Y., Liu, F., Cao, L., Wang, T., Wang, Q., Lou, Z., Rao, Z.

To be published

Released	2020-04-01
Method	ELECTRON MICROSCOPY 2.9 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-CoV-2 NSP12 (protein)
	SARS-CoV-2 NSP7 (protein)
	SARS-CoV-2 NSP8 (protein)


[3D View](#)

6LVN

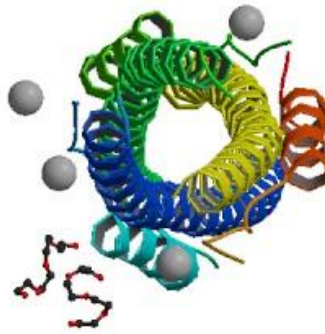
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Structure of the 2019-nCoV HR2 Domain

Zhu, Y., Sun, F.

To be published

Released	2020-02-26
Method	X-RAY DIFFRACTION 2.47 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-coV-2 S2 subunit (protein)


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6LXT

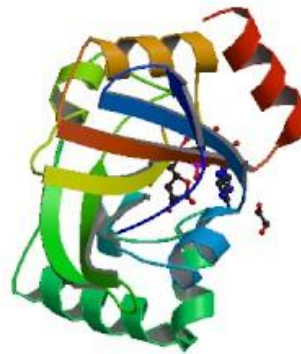
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Structure of post fusion core of 2019-nCoV S2 subunit

Zhu, Y., Sun, F.

(2020) Cell Res

Released	2020-02-26
Method	X-RAY DIFFRACTION 2.9 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	SARS-CoV-2 S2 subunit, SARS-CoV-2 S2 subunit (protein)
Unique Ligands	PG4, ZN


[3D View](#)

6W02

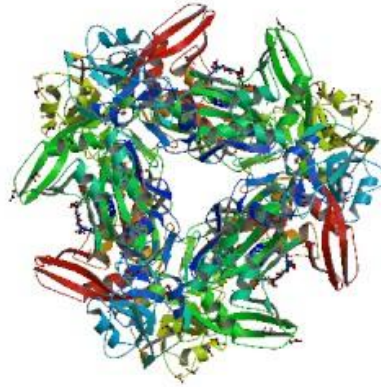
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Crystal Structure of ADP ribose phosphatase of NSP3 from SARS CoV-2 in the complex with ADP ribose

Michalska, K., Kim, Y., Jedrzejczak, R., Maltseva, N., Endres, M., Mececar, A., Joachimiak, A., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-11
Method	X-RAY DIFFRACTION 1.5 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	ADP ribose phosphatase (protein)
Unique Ligands	APR, EDO

[3D View](#)**6W01**[Download File](#) [View File](#)

The 1.9 Å Crystal Structure of NSP15 Endoribonuclease from SARS CoV-2 in the Complex with a Citrate

Kim, Y., Jedrzejczak, R., Maltseva, N., Endres, M., Godzik, A., Michalska, K., Joachimiak, A., Center for Structural Genomics of Infectious Diseases (CSGID)

To be published

Released	2020-03-11
Method	X-RAY DIFFRACTION 1.9 Å
Organisms	Severe acute respiratory syndrome coronavirus 2
Macromolecule	NSP15 Endoribonuclease (protein)
Unique Ligands	CIT, EDO, PEG

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RCSB PDB is funded by the National Science Foundation (DBI-1832184), the US Department of Energy (DE-SC0019749), and the National Cancer Institute, National Institute of Allergy and Infectious Diseases, and National Institute of General Medical Sciences of the National Institutes of Health under grant R01GM133198.