

*In vitro* anti-SARS-CoV-2 activity testing of natural compounds from medicinal plants [1–38]

Name of chemical compound	Type of in vitro test	Cell line/molecular target	Quantitative value	Result	Reference
(-)-Epicatechin gallate	Cell line assay	HEK293T-ACE2		Inactive	[1]
(-)-Epigallocatechin gallate	Biochemical assay	3CLpro	IC <sub>50</sub> = 1.58 μM	Active	[2]
(-)-O-Pinene	Cell line assay	293T-ACE2		Inactive	[1]
(+)-aureol	Cell line assay	HEK293T-ACE2	EC <sub>50</sub> = 4 μM; CC <sub>50</sub> > 10 μM	Active	[3]
(2R,2'R)-3,3'-(1,4-phenylenebis(oxy))bis(1-(piperidin-1-yl)propan-2-ol)	Cell line assay	HEK293T-ACE2		Inactive	[1]
1,2,3,4,6-pentagalloylglucose	Biochemical assay	3CLpro	IC <sub>50</sub> = 3.66 μM	Active	[4]
2-(1-(5-chlorothiophen-2-yl)ethylidene)hydrazine-1-carbothioamide	Cell line assay	HEK293T-ACE2		Inactive	[1]
2-(2,7-bis(2-morpholinoethoxy)-9H-fluoren-9-ylidene)hydrazine-1-carbothioamide	Cell line assay	HEK293T-ACE2		Inactive	[1]
2,2'-Anhydrouridine	Cell line assay	HEK293T-ACE2		Inactive	[1]
2,3,4,6-tetrahydroxy-5H-benzo[7]annulen-5-one	Biochemical assay	3CLpro	IC <sub>50</sub> = 4.58 μM	Active	[2]
20(R)-Ginsenoside Rh2	Cell line assay	HEK293T-ACE2		Inactive	[1]
2-Deoxy-D-glucose	Cell line assay	HEK293T-ACE2		Inactive	[1]
2-Phenylethanol	Cell line assay	HEK293T-ACE2		Inactive	[1]
2-Phloroeckol	Cell line assay	Vero E6	SI > 1.8	Inactive	[5]
	Biochemical assay	3CLpro	IC <sub>50</sub> = 13.3 μM; K <sub>i</sub> = 24 μM	Inactive	[5]
3,3'-(1,3-phenylenebis(oxy))bis(1-(4-methylpiperidin-1-yl)propan-2-ol)	Cell line assay	HEK293T-ACE2	EC <sub>50</sub> = 3.83 μM;	Active	[1]
			CC <sub>50</sub> > 50 μM;		
			SI > 13.06		

Aloin A	Biochemical assay	Vero E6	IC <sub>50</sub> = 0.095 μM	Active	[6]
3,4'-Dihydroxyflavone	Cell line assay	HEK293T-ACE2		Inactive	[1]
3,4-Dimethoxycinnamic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
4- (((3R,5S,8R,9S,10R,11R,13R,14S,17S)- 5,11,14-trihydroxy-10- (hydroxymethyl)-13-methyl-3- (((2S,3S,4R,5R,6S)-3,4,5-trihydroxy-6- methyltetrahydro-2H-pyran-2- yl)oxy)hexadecahydro-1H- cyclopenta[a]phenanthren-17-yl)furan- 2(5H)-one	Cell line assay	HEK293T-ACE2		Inactive	[1]
4-(2-hydroxyethyl)phenol	Biochemical assay	PLpro	IC <sub>50</sub> = 6.68 μM	Active	[7]
4-(4-Fluorobenzyl)-2-p-tolyl-1,2,4- thiadiazolidine-3,5-dione	Biochemical assay	3CLpro	IC <sub>50</sub> = 0.23 μM	Active	[2]
4-(4-Fluorobenzyl)-2-p-tolyl-1,2,4- thiadiazolidine-3,5-dione	Biochemical assay	3CLpro	IC <sub>50</sub> = 0.15 μM	Active	[2]
4,5-Dicaffeoylquinic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
4-Hydroxyacetophenone	Cell line assay	HEK293T-ACE2		Inactive	[1]
4'-O-Methylbavachalcone	Cell line assay	HEK293T-ACE2		Inactive	[1]
4'-O-methylchnaflavone	Biochemical assay	PLpro	IC <sub>50</sub> = 22.8 μM; K <sub>i</sub> = 19.7 μM	Inactive	[8]
5,7-dihydroxy-3-[(2S,3S,4R,5R,6S)- 3,4,5-trihydroxy-6-methyloxan-2- yl]oxy-2-(3,4,5- trihydroxyphenyl)chromen-4-one	Biochemical assay	3CLpro	IC <sub>50</sub> = 3.66 μM	Active	[2]
5-chloro-N-(2,6-dichloro-4- nitrophenyl)-2-hydroxybenzamide	Cell line assay	HEK293T-ACE2		Inactive	[1]
6-[3-(2',4'-dihydroxyphenyl)acryloyl]- 7-hydroxy-2,2-dimethyl-8-(3-methyl- 2-butenyl)-2H-benzopyran	Biochemical assay	PLpro	IC <sub>50</sub> = 16.74 μM	Inactive	[9]
7-O-methyluteone	Biochemical assay	PLpro	IC <sub>50</sub> = 79.38 μM	Inactive	[9]

7-Phloroecol	Cell line assay	Vero E6	SI > 1.8	Inactive	[5]
	Biochemical assay	3CLpro	IC50 = 42.1 $\mu$ M; Ki = 19.3 $\mu$ M	Inactive	[5]
9-Aminoacridine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Acetylcysteine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Acetylphomolactone	Cell line assay	HEK293T-ACE2		Inactive	[10]
Acteoside	Biochemical assay	3CLpro	IC50 = 4.54 $\mu$ M	Active	[2]
AgathisflavoneB	Cell line assay	Calu-3	EC50 = 4.23 $\mu$ M; CC50 = 61.3 $\mu$ M; SI = 14.5	Active	[11]
Aloin A	Biochemical assay	PLpro	IC50 = 15.68 $\mu$ M	Inactive	[12]
Aloin B	Biochemical assay	PLpro	IC50 = 17.51 $\mu$ M	Inactive	[12]
Aloperine	Cell line assay	HEK293T-ACE2	EC50 = 0.28 $\mu$ M; CC50 > 50 $\mu$ M; SI > 176.87	Active	[1]
alpha-Mangostin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Amentoflavone	Cell line assay	HEK293T-ACE2		Inactive	[13]
	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	PLpro	IC50 = 13 $\mu$ M; Ki = 9.1 $\mu$ M	Inactive	[8]
Ampelopsin	Biochemical assay	3CLpro	IC50 = 128 $\mu$ M	Inactive	[14]
Anacardic acid	Cell line assay	Vero E6	EC50 = 9 $\mu$ M; CC50 = 25.48 $\mu$ M	Active	[15]
	Biochemical assay	PLpro	IC50 = 24.26 $\mu$ M	Active	[16]
	Biochemical assay	PLpro	IC50 = 17.08 $\mu$ M	Active	[15]
Anacardic acid	Biochemical assay	3CLpro	IC50 = 2.07 $\mu$ M	Active	[15]
Angelicin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Apigenin	Cell line assay	Calu-3	EC50 = 5.11 $\mu$ M; CC50 = 302 $\mu$ M; SI = 59.1	Active	[17]
	Biochemical assay	3CLpro	IC50 = 3.02 $\mu$ M	Active	[2]

	Biochemical assay	3CLpro		Inactive	[14]
	Cell line assay	Calu-3	EC50 = 5.21 $\mu$ M;	Active	[11]
			CC50 = 282 $\mu$ M;		
			SI = 54.1		
Apigenin-7-O-glucoside	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21]
Arctigenin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Artemisinin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Ascorbic acid	Biochemical assay	3CLpro		Inactive	[14]
Asperline	Cell line assay	HEK293T-ACE2		Inactive	[10]
Aspernigrin	Cell line assay	Vero E9	CC50 = 43.9 $\mu$ M	Inactive	[22]
Astragalin	Biochemical assay	3CLpro	IC50 = 143 $\mu$ M	Inactive	[14]
Aucubin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Aurasperone A	Cell line assay	Vero E6	CC50 = 32.36 $\mu$ M;	Inactive	[22]
			SI = 2641.5		
Azulene	Cell line assay	HEK293T-ACE2		Inactive	[1]
Baicalein	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	3CLpro	IC50 = 0.02 $\mu$ M	Active	[2]
	Biochemical assay	nsp13	IC50 = 2.9 $\mu$ M	Inactive	[21]
	Cell line assay	Vero	EC50 = 4.5 $\mu$ M;	Active	[23]
			CC50 = 86 $\mu$ M		
	Cell line assay	Calu-3	EC50 = 1.2 $\mu$ M;	Active	[23]
			CC50 = 91 $\mu$ M		
Biochemical assay	RdRp		Active	[23]	
Biochemical assay	3CLpro	IC50 = 0.94 $\mu$ M	Active	[23]	
Baicalin	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Cell line assay	Vero E6	EC50 = 9 $\mu$ M;	Active	[23]
			CC50 >100 $\mu$ M		
	Cell line assay	Calu-3	EC50 = 8 $\mu$ M;	Active	[23]
			CC50 >100 $\mu$ M		
Biochemical assay	RdRp		Active	[23]	
Biochemical assay	3CLpro	IC50 = 6.41 $\mu$ M	Active	[23]	

Berbamine hydrochloride	Cell line assay	HEK293T-ACE2	EC50 = 1.28 $\mu$ M;	Active	[1]
			CC50 > 50 $\mu$ M;		
			SI = 38.94		
Bergenin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Betulinic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	Spike/ACE2		Active	[24]
Bisdemethoxycurcumin	Biochemical assay	3CLpro		Inactive	[14]
Botryodiplodin	Cell line assay	HEK293T-ACE2		Inactive	[10]
Brefeldin A	Cell line assay	HEK293T-ACE2		Inactive	[1]
Bromophycolide A	Cell line assay	Calu-3	EC50 = 6.9 $\mu$ M;	Active	[3]
			CC50 >10 $\mu$ M		
Caffeic acid	Biochemical assay	3CLpro	IC50 = 197 $\mu$ M	Inactive	[14]
Caffeic acid phenethyl ester	Cell line assay	MCF7		Active	[19]
Caffein	Biochemical assay	3CLpro		Inactive	[14]
Camphor	Cell line assay	HEK293T-ACE2		Inactive	[1]
Caryophyllene Oxide	Cell line assay	HEK293T-ACE2		Inactive	[10]
Catalpol	Cell line assay	HEK293T-ACE2		Inactive	[1]
Catechin	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21].
	Biochemical assay	3CLpro		Inactive	[14]
Catechin gallate	Biochemical assay	3CLpro		Inactive	[14]
Catechol	Biochemical assay	3CLpro		Inactive	[14]
Celastrol	Cell line assay	HEK293T-ACE2		Active	[13]
Cephalotaxlen	Cell line assay	HEK293T-ACE2		Inactive	[1]
Cepharanthine	Cell line assay	HEK293T-ACE2	EC50 = 0.32 $\mu$ M;	Active	[1]
			CC50 > 50 $\mu$ M; SI > 158.58		
	Cell line assay	VeroE6/TMPRSS2	EC50 = 0.35 $\mu$ M	Active	[25]
Chebulagic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
Chelidonine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Chlorogenic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]

	Biochemical assay	3CLpro	IC50 = 140 $\mu$ M	Inactive	[14]
Chrysin	Biochemical assay	3CLpro		Inactive	[14]
cis-Verbenol	Cell line assay	HEK293T-ACE2		Inactive	[10]
Corilagin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Coumarin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Cryptomerin B	Biochemical assay	Plpro	IC50 = 26.3 $\mu$ M;	Inactive	[8]
			Ki = 14.3 $\mu$ M		
Curcumin	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	3CLpro		Inactive	[14]
Cyanidin-3-O-glucoside	Biochemical assay			Active	[26]
Cynarin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Cytarabine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Daidzein	Biochemical assay	3CLpro	IC50 = 56 $\mu$ M	Inactive	[14]
Daidzin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Danthron	Cell line assay	HEK293T-ACE2		Inactive	[1]
Daphnoretin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Dauricine	Cell line assay	HEK293T-ACE2	EC50 = 1.43 $\mu$ M;	Active	[1]
			CC50 > 50 $\mu$ M;		
			SI > 34.99		
Daurisoline	Cell line assay	HEK293T-ACE2	EC50 = 2.48 $\mu$ M;	Active	[1]
			CC50 > 50 $\mu$ M;		
			SI > 20.13		
Deapioplatycodin D	Cell line assay	HEK293T-ACE2		Inactive	[1]
Demethoxycurcumin	Biochemical assay	3CLpro		Inactive	[14]
Desaminotyrosine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Dieckol	Cell line assay	Vero E6	SI > 2.9	Inactive	[5]
	Biochemical assay	3CLpro	IC50 = 2.7 $\mu$ M; Ki = 2.4 $\mu$ M	Active	[5]
Dihydromyricetin	Biochemical assay	3CLpro	IC50 = 0.18 $\mu$ M	Active	[2]
	Biochemical assay	nsp13	IC50 = 25.6 $\mu$ M	Inactive	[21]

Dihydratanshinone I	Cell line assay	HEK293T-ACE2	EC50 = 15.66 $\mu$ M; CC50 = 33.5 $\mu$ M;	Active	[1]
			SI > 0.9		
DioscinB	Cell line assay	HEK293T-ACE2		Active	[13]
Diosmetin	Biochemical assay	nsp13	IC50 = 10.6 $\mu$ M	Inactive	[21]
Dioxinodehydroeckol	Cell line assay	Vero E6	SI > 1.4	Inactive	[5]
	Biochemical assay	3CLpro	IC50 = 158.3 $\mu$ M	Inactive	[5]
Dipotassium glycyrrhizinate	Cell line assay	HEK293T-ACE2		Inactive	[1]
D-Pinitol	Cell line assay	HEK293T-ACE2		Inactive	[1]
Eckol	Cell line assay	Vero E6	SI < 1	Inactive	[5]
	Biochemical assay	3CLpro	IC50 = 8.8 $\mu$ M; Ki = 8.2 $\mu$ M	Active	[5]
Elemicin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Emodin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Epicatechin	Biochemical assay	3CLpro		Inactive	[14]
Epicatechin gallate	Biochemical assay	3CLpro		Inactive	[14]
	Biochemical assay			Active	[26]
Epigallocatechin	Biochemical assay	3CLpro		Inactive	[14]
Epigallocatechin gallate	Biochemical assay	3CLpro	IC50 = 171 $\mu$ M	Inactive	[14]
	Biochemical assay			Active	[26]
Epigallocatechin-3-gallate	Cell line assay	HEK293T-ACE2		Active	[27]
Epigoitrin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Epimedin	Cell line assay	HEK293T-ACE2		Inactive	[13]
Fangchinoline	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Cell line assay	HEK293T-ACE2	EC50 = 0.94 $\mu$ M; CC50 > 50 $\mu$ M;	Active	[1]
			SI > 53.39		
Ferulic acid	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21]
	Biochemical assay	3CLpro		Inactive	[14]
Fisetin	Cell line assay	Calu-3	EC50 = 2.03 $\mu$ M;	Active	[17]
			CC50 > 256 $\mu$ M;		

			SI > 126		
Flavanone	Biochemical assay	nsp13	IC50 = 0.52 $\mu$ M	Active	[21]
Flavanone-7-O-glucoside	Biochemical assay	nsp13	IC50 = 2.88 $\mu$ M	Inactive	[21]
Flavasperone	Cell line assay	Vero E6	CC50 = 189.3 $\mu$ M	Inactive	[22]
Fonsecinone A	Cell line assay	Vero E6	CC50 = 287.7 $\mu$ M	Inactive	[22]
Fucodiphloroethol G	Cell line assay	Vero E6	SI > 1.1	Inactive	[5]
	Biochemical assay	3CLpro	IC50 = 22.5 $\mu$ M; Ki = 63.5 $\mu$ M	Inactive	[5]
Fumagillin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Gallic acid	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21]
	Biochemical assay	3CLpro		Inactive	[14]
Gallinamide A	Cell line assay	Vero E6	EC50 = 28 $\mu$ M	Active	[37]
Gallocatechin gallate	Biochemical assay	3CLpro		Inactive	[14]
Geldanamycin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Geniposide	Cell line assay	HEK293T-ACE2		Inactive	[1]
Genistein	Cell line assay	Calu-3	EC50 = 5.25 $\mu$ M;	Active	[17]
			CC50 > 305 $\mu$ M;		
			SI > 58.1		
Genistin	Biochemical assay	3CLpro		Inactive	[14]
Genkwanin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Gentiopicroside	Cell line assay	HEK293T-ACE2		Inactive	[1]
Ginkgetin	Biochemical assay	PLpro	IC50 = 29.8 $\mu$ M;	Inactive	[8]
			Ki = 17.7 $\mu$ M		
Ginkgolic acid	Cell line assay	Vero-E6	EC50 = 8.3 $\mu$ M;	Active	[15]
			CC50 > 27.88 $\mu$ M		
	Biochemical assay	PLpro	IC50 = 16.3 $\mu$ M	Active	[15]
	Biochemical assay	3CLpro	IC50 = 1.79 $\mu$ M	Active	[15]
Ginsenoside Rb1	Cell line assay	HEK293T-ACE2		Inactive	[1]
Ginsenoside Rb2	Cell line assay	HEK293T-ACE2		Inactive	[1]
Glycitin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Glycyrrhetic acid	Biochemical assay	Spike/ACE2		Active	[24]



Glycyrrhizic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
Glycyrrhizin	Cell line assay	Vero E6		Active	[38]
Gomisin G	Cell line assay	HEK293T-ACE2		Inactive	[1]
Gramine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Guaiol	Cell line assay	HEK293T-ACE2		Inactive	[10]
Guanosine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Haematoxylin	Biochemical assay	3CLpro	IC <sub>50</sub> = 0.22 $\mu$ M	Active	[2]
Hanfangichin B	Cell line assay	HEK293T-ACE2		Inactive	[1]
Harringtonine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Hernandezine	Cell line assay	HEK293T-ACE2	EC <sub>50</sub> = 0.11 $\mu$ M;	Active	[1]
			CC <sub>50</sub> > 50 $\mu$ M;		
			SI > 448.83		
Hesperidin	Biochemical assay	3CLpro		Inactive	[14]
HinokiflavoneB	Biochemical assay	PLpro	IC <sub>50</sub> = 9.5 $\mu$ M; Ki = 7.8 $\mu$ M	Inactive	[8]
Hinokitiol	Cell line assay	HEK293T-ACE2		Inactive	[1]
Homofascaplysin A	Cell line assay	Calu-3	EC <sub>50</sub> = 1.1 $\mu$ M;	Active	[3]
			CC <sub>50</sub> > 5 $\mu$ M		
Honokiol	Cell line assay	HEK293T-ACE2		Inactive	[1]
Hydroquinone	Biochemical assay	3CLpro		Inactive	[14]
Hypericin	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	3CLpro	IC <sub>50</sub> = 23.3 $\mu$ M	Inactive	[31]
	Biochemical assay			Active	[26]
Hyperoside	Cell line assay	HEK293T-ACE2		Inactive	[1]
Icaritin	Biochemical assay	3CLpro		Inactive	[14]
Idebenone	Biochemical assay	3CLpro		Inactive	[14]
Impulsin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Isoasperline	Cell line assay	HEK293T-ACE2		Inactive	[10]
Isochlorogenic acid A	Cell line assay	HEK293T-ACE2		Inactive	[1]
Isofangchinoline	Cell line assay	HEK293T-ACE2	EC <sub>50</sub> = 1.11 $\mu$ M;	Active	[1]
			CC <sub>50</sub> > 50 $\mu$ M;		

			SI > 45		
Isoferulic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
Isoginkgetin	Biochemical assay	PLpro	IC50 = 31.2 $\mu$ M;	Inactive	[8]
			Ki = 26.5 $\mu$ M		
Isoliensinine	Cell line assay	HEK293T-ACE2	EC50 = 0.923 $\mu$ M;	Active	[1]
			CC50 > 50 $\mu$ M; SI > 54.17		
Isoliquiritigenin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Isomangiferin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Isorhamnetin	Biochemical assay	3CLpro	IC50 = 8.42 $\mu$ M	Active	[1]
Kaempferide	Cell line assay	HEK293T-ACE2		Inactive	[1]
Kaempferol	Cell line assay	Calu-3	EC50 = 3.02 $\mu$ M;	Active	[17]
			CC50 > 357 $\mu$ M;		
			SI > 118		
	Cell line assay	HEK293T-ACE2		Inactive	[1]
Biochemical assay	nsp13	IC50 = 0.76 $\mu$ M	Active	[21]	
Biochemical assay	3CLpro		Inactive	[14]	
Kaempferol-3-O-rutinoside	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21]
Kobophenol A	Cell line assay	Vero E6		Active	[32]
	Cell line assay	Vero E6	EC50 = 71.6 $\mu$ M	Inactive	[32]
Kumatakenin	Cell line assay	Vero E6	EC50 = 10 $\mu$ M	Active	[30]
	Cell line assay	Calu-3	EC50 = 0.3 $\mu$ M; SI > 6933	Active	[30]
Kuwanon C	Cell line assay	Vero E6		Active	[33]
	Biochemical assay	Spike/ACE2	IC50 = 91.4 $\mu$ M	Inactive	[33]
Lanatoside C	Cell line assay	HEK293T-ACE2		Inactive	[1]
Lapachol	Cell line assay	HEK293T-ACE2		Inactive	[1]
L-Chicoric Acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
L-Cycloserine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Licoflavone C	Biochemical assay	nsp13	IC50 = 1.34 $\mu$ M	Active	[21]
Liensinine	Cell line assay	HEK293T-ACE2	EC50 = 1 $\mu$ M;	Active	[1]

			CC50 > 50 $\mu$ M; SI > 49.8						
Limonin	Cell line assay	HEK293T-ACE2		Inactive	[1]				
Linalool	Cell line assay	HEK293T-ACE2		Inactive	[10]				
L-Lysine	Cell line assay	HEK293T-ACE2		Inactive	[1]				
L-Norleucine	Cell line assay	HEK293T-ACE2		Inactive	[1]				
Luteolin	Cell line assay	Calu-3	EC50 = 5.92 $\mu$ M; CC50 = 332 $\mu$ M; SI > 56.1	Active	[17]				
			Biochemical assay			3CLpro	IC50 = 11.81 $\mu$ M	Inactive	[31]
			Biochemical assay			3CLpro		Inactive	[14]
Luteoline-4-O-glucoside	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21]				
Luteoline-7-O-glucoside	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21]				
Lycorine	Cell line assay	HEK293T-ACE2		Inactive	[1]				
Macrophominol	Cell line assay	HEK293T-ACE2		Inactive	[10]				
Mangiferin	Biochemical assay	3CLpro		Inactive	[14]				
Mangiferin-(1- > 6)-O $\pm$ -d-glucopyranoside	Biochemical assay	3CLpro		Inactive	[14]				
Maslinic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]				
methyl 3,4-dihydroxybenzoate	Biochemical assay	PLpro	IC50 = 3.76 $\mu$ M	Active	[7]				
Methyl gallate	Cell line assay	HEK293T-ACE2		Inactive	[1]				
MorelloflavoneB	Biochemical assay	PLpro	IC50 = 36.4 $\mu$ M; Ki = 30.7 $\mu$ M	Inactive	[8]				
Mycophenolic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]				
Myricetin	Cell line assay	Calu-3	EC50 = 0.91 $\mu$ M; CC50 = 716 $\mu$ M; SI > 787	Active	[17].				
			Biochemical assay			3CLpro	IC50 = 0.4 $\mu$ M	Active	[2]
			Biochemical assay			3CLpro	IC50 = 0.22 $\mu$ M	Active	[2]
	Biochemical assay	nsp13	IC50 = 0.41 $\mu$ M	Active	[21]				
	Biochemical assay	3CLpro	IC50 = 43 $\mu$ M	Inactive	[14]				

N6-Methyladenosine	Cell line assay	HEK293T-ACE2		Inactive	[1]
N-Acetylneuraminic acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
Naringenin	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	3CLpro	IC50 = 150 $\mu$ M	Inactive	[14]
Naringin	Biochemical assay	3CLpro		Inactive	[14]
Neferine	Cell line assay	HEK293T-ACE2	EC50 = 0.95 $\mu$ M;	Active	[1]
			CC50 > 50 $\mu$ M;		
			SI > 52.87		
Neobaicalein	Cell line assay	HEK293T-ACE2		Inactive	[20]
Nordihydroguaiaretic acid	Biochemical assay	3CLpro	IC50 = 2.59 $\mu$ M	Active	[2]
Octyl gallate	Cell line assay	HEK293T-ACE2		Inactive	[1]
Oglufanide	Cell line assay	HEK293T-ACE2		Inactive	[1]
Oleanolic Acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	Spike/ACE2		Active	[24]
	Cell line assay	HEK293T-ACE2		Inactive	[1]
Oroxylin A	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Cell line assay	HEK293T-ACE2		Active	[20]
Osthole	Cell line assay	HEK293T-ACE2		Inactive	[1]
Ouabain	Cell line assay	HEK293T-ACE2		Inactive	[1]
Oxindole	Cell line assay	HEK293T-ACE2		Inactive	[1]
Oxymatrine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Oxyresveratrol	Cell line assay	HEK293T-ACE2		Inactive	[1]
Oxytetracycline	Cell line assay	HEK293T-ACE2		Inactive	[1]
PCL 016	Cell line assay	HEK293T-ACE2		Inactive	[1]
Pentagalloylglucose	Cell line assay	HEK293T-ACE2		Inactive	[1]
Pentoxifylline	Cell line assay	HEK293T-ACE2		Inactive	[1]
Phillyrin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Phlorofucofuroeckol A	Cell line assay	Vero E6	SI > 1.1	Inactive	[5]
	Biochemical assay	3CLpro	IC50 = 16.7 $\mu$ M;	Inactive	[5]
			Ki = 10.6 $\mu$ M		
Phloroglucinol	Biochemical assay	3CLpro	IC50 = >200 $\mu$ M	Inactive	[5]

Phycobilin	Biochemical assay	3CLpro	IC50 = 71 $\mu$ M	Active	[28]
	Biochemical assay	PLpro	IC50 = 62 $\mu$ M	Active	[28].
p-hydroxybenzaldehyde	Biochemical assay	PLpro	IC50 = 3.99 $\mu$ M	Active	[7]
Picroside II	Cell line assay	HEK293T-ACE2		Inactive	[1]
Podocarpusflavone A	Biochemical assay	PLpro	IC50 = 43.2 $\mu$ M;	Inactive	[8].
			Ki = 36.5 $\mu$ M		
Prunetin	Biochemical assay	nsp13	IC50 = 11.5 $\mu$ M	Inactive	[21].
Pseudolaric Acid B	Cell line assay	HEK293T-ACE2		Inactive	[1]
Psoralen	Cell line assay	HEK293T-ACE2		Inactive	[1]
Puerarin	Biochemical assay	3CLpro	IC50 = 42 $\mu$ M	Inactive	[14]
Punicalagin	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Cell line assay	HEK293T-ACE2	EC50 = 0.347 $\mu$ M	Active	[29]
	Cell line assay	Vero E6	EC50 = 0.196 $\mu$ M	Active	[29]
	Biochemical assay	nsp13		Active	[29]
Punicalin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Pyridoxal phosphate	Cell line assay	HEK293T-ACE2		Inactive	[1]
Pyrogallol	Biochemical assay	3CLpro		Inactive	[14]
Quercetagenin	Biochemical assay	3CLpro	IC50 = 145 $\mu$ M	Inactive	[14]
Quercetin	Cell line assay	Calu-3	EC50 = 2.4 $\mu$ M;	Active	[17]
			CC50 = 852 $\mu$ M;		
			SI > 355		
	Biochemical assay	nsp13	IC50 = 0.53 $\mu$ M	Active	[21]
	Biochemical assay	3CLpro	IC50 = 93 $\mu$ M	Inactive	[14]
Resveratrol	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21]
	Biochemical assay	3CLpro	IC50 = 103 $\mu$ M	Inactive	[14]
Retusin	Cell line assay	Vero E6	EC50 = 0.4 $\mu$ M;	Active	[30]
			SI > 11.4		
	Cell line assay	Calu-3	EC50 = 0.4 $\mu$ M;	Active	[30]
			SI > 8333		
R-Limonene	Cell line assay	HEK293T-ACE2		Inactive	[10]
Rosmarinic acid	Biochemical assay	3CLpro	IC50 = 3.86 $\mu$ M	Active	[2]

	Biochemical assay	3CLpro	IC50 = 9.43 $\mu$ M	Active	[31]
Rubasperone B	Cell line assay	Vero E10	CC50 = 181 $\mu$ M	Inactive	[22]
Rutin	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	nsp13	IC50 = >30 $\mu$ M	Inactive	[21]
	Biochemical assay	3CLpro		Inactive	[14]
	Biochemical assay			Active	[26]
Saikosaponin C	Cell line assay	HEK293T-ACE2		Inactive	[13]
Salicin	Biochemical assay	3CLpro		Inactive	[14]
Salicylic acid	Biochemical assay	3CLpro		Inactive	[14]
Salvianolic acid B	Biochemical assay	3CLpro	IC50 = 3.42 $\mu$ M	Active	[2]
Salvianolic acid C	Cell line assay	HEK293T-ACE2	EC50 = 3.85 $\mu$ M	Active	[34]
	Cell line assay	Vero E6	EC50 = 3.41 $\mu$ M	Active	[34]
Schaftoside	Cell line assay	Vero E6	EC50 = 11.83 $\mu$ M	Active	[36]
	Biochemical assay	3CLpro	IC50 = 1,73 $\mu$ M	Active	[36]
	Biochemical assay	PLpro	IC50 = 3.91 $\mu$ M	Active	[36]
Schisandrin A	Cell line assay	HEK293T-ACE2		Inactive	[1]
Schisandrin C	Cell line assay	HEK293T-ACE2	EC50 = 14.58 $\mu$ M; CC50 > 50 $\mu$ M; SI > 3.43	Active	[1]
Sciadopitysin	Biochemical assay	PLpro	IC50 = 34.8 $\mu$ M; Ki = 23.6 $\mu$ M	Inactive	[8]
Scutellarein	Cell line assay	HEK293T-ACE2		Inactive	[1]
Scutellarin	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Cell line assay	HEK293T-ACE2		Inactive	[20]
Sennoside A	Cell line assay	HEK293T-ACE2		Inactive	[1]
	Biochemical assay	3CLpro	IC50 = 1.59 $\mu$ M	Active	[2]
Shikonin	Cell line assay	HEK293T-ACE2		Inactive	[1]
S-Limonene	Cell line assay	HEK293T-ACE2		Inactive	[10]
SN00074072	Cell line assay	HEK293T-ACE2		Active	[18]
Sophocarpine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Sophotokin	Biochemical assay	3CLpro	IC50 = 19.88 $\mu$ M	Inactive	[9]

Sophotonin I	Biochemical assay	PLpro	IC <sub>50</sub> = 32.67 μM	Inactive	[9]
Sophotonin L	Biochemical assay	3CLpro	IC <sub>50</sub> = 34.89 μM	Inactive	[9]
Spermine	Cell line assay	HEK293T-ACE2		Inactive	[1]
SSAA09E3	Cell line assay	HEK293T-ACE2		Inactive	[1]
SSYA10001	Biochemical assay	nsp13	IC <sub>50</sub> = >30 μM	Inactive	[21]
Tannic acid	Biochemical assay	3CLpro	IC <sub>50</sub> = 9 μM	Active	[14]
Tetrandrine	Cell line assay	HEK293T-ACE2	EC <sub>50</sub> = 0.9 μM;	Active	[1]
			CC <sub>50</sub> > 50 μM;		
			SI > 55.8		
Theaflavin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Tizoxanide	Cell line assay	HEK293T-ACE2		Inactive	[1]
Torvoside K	Cell line assay	HEK293T-ACE2		Inactive	[13]
Tosylphenylalanyl chloromethyl ketone	Biochemical assay	3CLpro	IC <sub>50</sub> = 1.37 μM	Active	[2]
Trans-anethole	Cell line assay	HEK293T-ACE2		Inactive	[10]
Tricin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Trigonelline	Biochemical assay	3CLpro		Inactive	[14]
Trilobatin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Triphlorethol A	Cell line assay	Vero E6	SI < 1	Inactive	[5]
	Biochemical assay	3CLpro	IC <sub>50</sub> = 164.7 μM	Inactive	[5]
Tubercidin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Tunicamycin	Cell line assay	HEK293T-ACE2		Inactive	[1]
Verbascoside	Cell line assay	HEK293T-ACE2		Inactive	[1]
Vidarabine	Cell line assay	HEK293T-ACE2		Inactive	[1]
Vitexin	Biochemical assay	3CLpro	IC <sub>50</sub> = 180 μM	Inactive	[14]
Withaferin-A	Cell line assay	MCF7		Active	[19]
Withanone	Biochemical assay	Spike/ACE2	IC <sub>50</sub> = 0.33 ng/mL	Active	[35]
	Cell line assay	MCF7		Active	[19]
Wogonin	Cell line assay	HEK293T-ACE2		Inactive	[20]
	Biochemical assay	nsp13	IC <sub>50</sub> = 24.9 μM	Inactive	[21]
Xanthohumol	Cell line assay	HEK293T-ACE2		Inactive	[1]

Xanthone	Cell line assay	HEK293T-ACE2		Inactive	[1]
ZINC02111387	Cell line assay	HEK293T-ACE2	EC50 = 1.12 µg/ml	Active	[18]
ZINC02122196	Cell line assay	HEK293T-ACE2		Active	[18]
ZINC04090608B	Cell line assay	HEK293T-ACE2		Active	[18]
α-Lipoic Acid	Cell line assay	HEK293T-ACE2		Inactive	[1]
α-Vitamin E	Cell line assay	HEK293T-ACE2		Inactive	[1]
β-Caryophyllene	Cell line assay	HEK293T-ACE2		Inactive	[10]
β-Cyclodextrin	Cell line assay	HEK293T-ACE2		Inactive	[1]

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