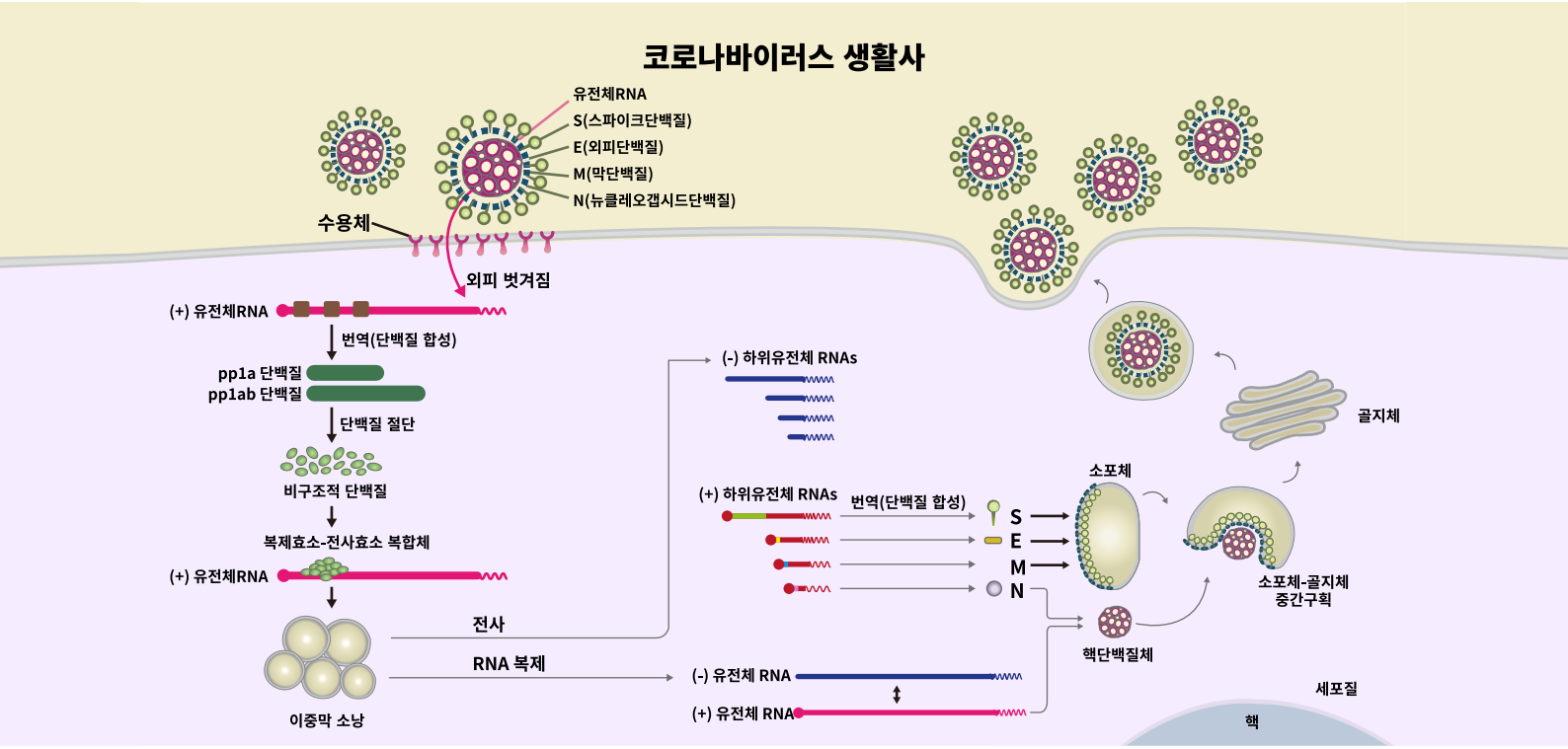
Inhibitors for COVID-19 Research



COVID-19 (SARS-Cov-2)는 이전에 이미 알려진 SARS-CoV와 ~80%의 RNA 상동성이 확인되었습니다. 두 바이러스와 Host 단백질 상호 작용에 대한 연구는 바이러스의 Spike가 Human mucosal 표면의 ACE2에 결합하여 숙주세포로 융합하여 들어온다는 결과를 보여줬습니다. 바리러스가 숙주세포에 융합되어 들어올 때 관련있는 단백질들은 다음과 같습니다; TMPRSS2, Cathepsin B/L, ACE2, DPP4, Neutrophil elastase 1

Virus infection 시 관련 host 수용체: ACE2, DPP4
Virus infection 시 host protease: TMPRSS2, Cathepsin B/L
Virus 감염 및 infection 바이오마커: Neutrophil Elastase (NE)
Virus Spike 관련 enzyme: Furin

신제품
렘데시비르 출시

Target	Products	Cat #	Description
RdRP	**Remdesivir**	**7226**	**Viral RNA-dependent RNA polymerase (RdRP) inhibitor**
ACE	Benazepril hydrochloride	2578	Angiotensin-converting enzyme (ACE) inhibitor
	Perindopril erbumine	4302	Angiotensin-converting enzyme (ACE) inhibitor
	Captopril	4455	ACE inhibitor; also inhibits LTA4 hydrolase
	Ramipril	5250	Non-peptide, competitive ACE inhibitor
	Spinorphin	2931	Endogenous peptide, ACE inhibitor
Cathepsin B/L	MDL 28170	1146	Potent, selective calpain and cathepsin B inhibitor
	CA 074	4863	Selective cathepsin B inhibitor
	Calpeptin	0448	Calpain and cathepsin L inhibitor
	SID 26681509	3625	Cathepsin L inhibitor
	N-Acetyl-L-leucyl-L-leucyl-L-methional	0384	Cathepsin inhibitor
	E 64d	4545	Cathepsin inhibitor ; interferes with autolysosomal digestion
DPP4	DPPI 1c hydrochloride	2783	DPP-IV inhibitor
	K 579	2790	DPP-IV inhibitor
	NVP DPP 728 dihydrochloride	3506	Potent, orally active DPP-IV inhibitor
	Saxagliptin hydrochloride	6507	High affinity DPP-IV inhibitor; active in vivo
TMPRSS2	Camostat mesylate	3193	Orally active protease inhibitor ; inhibits entry of SARS-Cov-2 into lung cells
NE1	ONO 6818	5651	High affinity and selective human NE1 inhibitor ; orally active
	BAY 678	5706	Potent and selective cell-permeable human NE inhibitor
Furin	SSM 3 trifluoroacetate	5253	Potent furin inhibitor

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bio-techne®

COVID-19
Pharmacological Target Screening

관련 연구에 필요한 Compound / Drug Libraries를 이용해 보세요

① Testing new uses for existing antiviral drugs (FDA-Approved Drugs 활용)

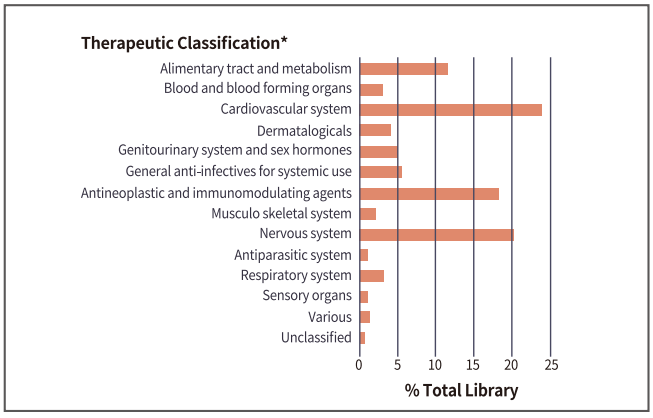
② Screening small molecule libraries (Tocriscreen 2.0 활용)

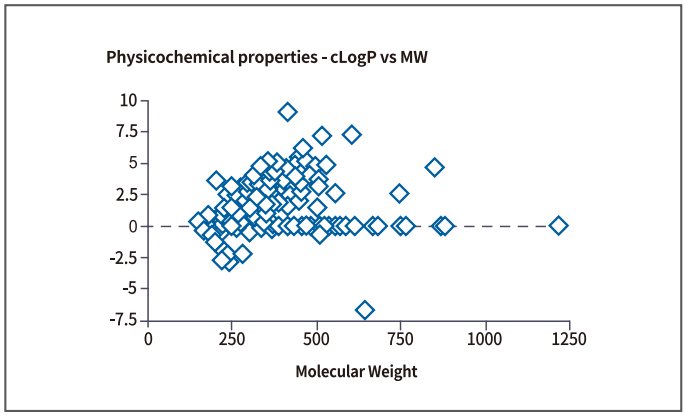
Tocriscreen
FDA-Approved Drugs

A library of 190 biologically active compounds

Key Product Features

- 모두 FDA로 부터 승인된 화합물
- 190개의 compounds 구성
- 98% 이상의 고순도 compounds
- Ready to use
- 기존의 치료용 화합물 tamoxifen (#0999) 와 paclitaxel (#1097) 및 최근 많이 사용되는 gefitinib (#3000) 과 axitinib (#4350)을 모두 포함





* Data derived using the WHO Anatomical Therapeutic Chemical Classification System code (ATC code)

Order Information

Product	Cat. no	No. Compounds	Vol.	Format
Tocriscreen FDA-Approved Compounds	5932	190	250 µL	10mM DMSO
Tocriscreen 2.0 Max	7150	1280	250 µL	10mM DMSO
Tocriscreen 2.0 Mini	7151	1280	250 µL	10mM DMSO
Tocriscreen 2.0 Micro	7152	1280	250 µL	10mM DMSO

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