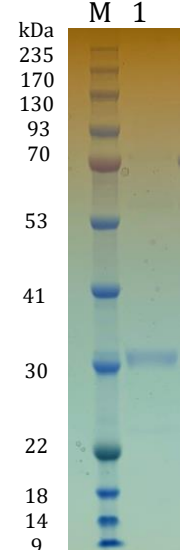
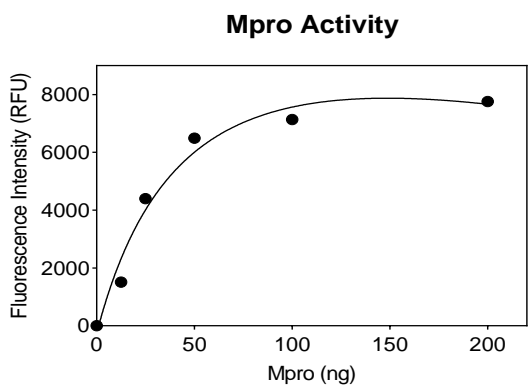
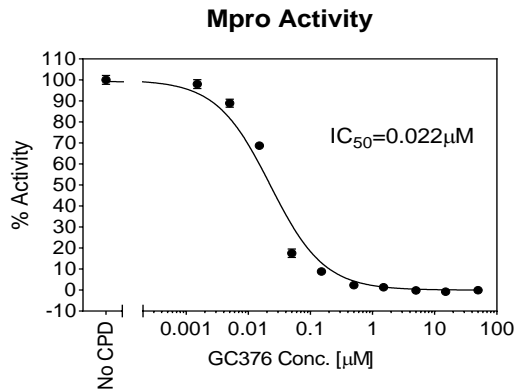


Product Name	Recombinant SARS-CoV-2 Mpro	 <p>SDS-PAGE gel</p> <p>kDa M 1</p> <p>235 170 130 93 70 53 41 30 22 18 14 9</p> <p>M- MW Marker 1 - Mpro</p>
Synonym(s)	2019-nCoV Mpro, 3CL Protease, 3CL Pro, Main protease, COVID-19	
Quantity	50 µg, 500 µg	
Lot Number	B10716	
Concentration	0.6 mg/ml	
Molecular weight	33.8 kDa	
Purity	>95% by SDS-PAGE	
Tag	No Tag	
Expression Source	E. coli	
GenBank Accession #	P0DTC1.1, Ser3264-Gln3569	
Application	Inhibitor Screening, activity assay	
Formulation	20 mM Tris-HCl, pH7.8, 150 mM NaCl, 1 mM EDTA, 1 mM DTT, 20% Glycerol	
Storage and Stability	Stable for 12 months at -80°C, Avoid freeze/thaw cycles	
Description	Mpro of Severe acute respiratory Coronavirus 2 is essential for viral replication by processing the polyproteins 1ab at 11 cleavage sites. Inhibiting the activity of this enzyme would block viral replication, therefore, it becomes a promising target for the development of anti-coronaviral therapeutic agents.	
 <p>Mpro Activity</p> <p>Fluorescence Intensity (RFU)</p> <p>Mpro (ng)</p>		 <p>Mpro Activity</p> <p>% Activity</p> <p>GC376 Conc. [µM]</p> <p>IC₅₀=0.022µM</p>
<p>Assay Condition:</p> <p>The enzymatic reactions are performed at 10µM substrate (catalogue number 728208), indicated amount of Mpro enzyme in 1X assay buffer at room temperature for 2 hours. The fluorescence intensity is measured at exc/em 360 nm/460 nm.</p>		
Reference	<p>Zhang, L., et al., Science 24 Apr 2020; 368 (6489): 409-412. Dai, W., et al., Science Jun 19 2020; 368(6497):1331-1335.</p>	

This product is for research use only and not for diagnostic or therapeutic use.

RELATED PRODUCTS:

Name of Products	Catalog#	Size
SARS-CoV-2 Mpro Assay Kit, 3CL Protease Assay Kit	728203	96 rxns
SARS-CoV Protease Assay Buffer (2X),	728205	20 ml
Mpro substrate, SARS-CoV-1/SARS-CoV-2	728208	1 mg
Recombinant SARS-CoV-2 Helicase (NSP13)	728231-1	10 µg
	728231-2	50 µg
	728231-3	100 µg
Recombinant SARS-CoV-2 Nucleocapsid phosphoprotein (N)	728241	100 µg
Recombinant SARS-CoV-2 Papain-like Protease (PLpro, NSP3), CF	728251-1	50 µg
	728251-2	100 µg
	728251-3	1 mg
Papain-like Protease Assay Kit	728253	96 rxns
Papain-like Protease substrate	728255	1 mg
RNA-dependent RNA polymerase (NSP12), Recombinant SARS-CoV-2	728261	100 µg
RNA-dependent RNA polymerase (NSP7, NSP8, NSP12 Complex), Recombinant SARS-CoV-2	728263	20 µg
SARS-CoV-2 NSP7, Recombinant	728264-1	100 µg
	728264-2	1 mg
SARS-CoV-2 NSP8, Recombinant	728265-1	100 µg
	728265-2	1 mg