

SARS Coronavirus Main Proteinase Complexed With Inhibitor

Cat. No. CBCRY05 Lot. No. (See product label)

SPECIFICATION

Product Overview

Source	E.coli
Background	The SARS-CoV main protease, which is a 33.8-kDa protease (also called the 3C-like protease), plays a pivotal role in mediating viral replication and transcription functions through extensive proteolytic processing of two replicase polyproteins, pp1a (486 kDa) and pp1ab (790 kDa).
Protein Classification	Hydrolase
Structure Weight	69623.62
Polymer	1
Molecule	3C-like proteinase
Chain Length	306 amino acids
PDB ID	1UK4
MMDB ID	25518
Method	X-Ray Diffraction

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Resolution	2.5Å
Ligand Chemical Component	Chloroacetone
Reference	Yang H, Yang M, Ding Y, Liu Y, Lou Z, Zhou Z, Sun L, Mo L, Ye S, Pang H, Gao GF, Anand K, Bartlam M, Hilgenfeld R, Rao Z. The crystal structures of severe acute respiratory syndrome virus main protease and its complex with an inhibitor. Proc Natl Acad Sci U S A. 2003 Nov 11;100(23):13190-13195.
GENE INFORMATION	
Gene Name	NEWENTRY
Synonyms	3C-like proteinase
Gene ID	2831005
Function	RNA binding; catalytic activity; RNA-directed RNA polymerase activity; peptidase activity; cysteine-type peptidase activity; zine ion binding; hydrolase activity; metal ion binding

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