



3CLpro Protein Crystal

Catalog: CBCRY05

PRODUCT INFORMATION

Product Name	3CLpro Protein Crystal
Catalog Number	CBCRY05
Fragment	Full length
Protein Description	SARS Coronavirus Main Proteinase Complexed With Inhibitor
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 Da
PDBID	1UK4
Method	X-Ray Diffraction
Resolution	2.5 Å
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.
cDNA Length	918

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to 3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.