Datasheet for ABIN7274373

SARS-Coronavirus Nonstructural Protein 8 (SARS-CoV NSP8) (S144A) Protein

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Overview

Quantity:	100 µg
Target:	SARS-Coronavirus Nonstructural Protein 8 (SARS-CoV NSP8)
Protein Characteristics:	S144A
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	SARS-CoV-2 3CLpro/3C-like Protease Protein (S144A)
Sequence:	Ser1-Gln306 (S144A)
Characteristics:	Recombinant SARS-CoV-2 3CLpro/3C-like Protease Protein (S144A) is expressed from E.coli without tag.It contains Ser1-Gln306(S144A).
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	SARS-Coronavirus Nonstructural Protein 8 (SARS-CoV NSP8)
Alternative Name:	3CLpro (SARS-CoV NSP8 Products)
Target Type:	Viral Protein

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Target Details

Background:	3CL protease, a viral cysteine proteinase, plays an important role in co-translational proteolytic processing of Coronavirus polyproteins. The 3CL protease cleaves as much as 11 sites in the replicase polyproteins and also releases the key replicative functions of polymerase and helicase.
Molecular Weight:	33.78 kDa same as Tris-Bis PAGE result.
NCBI Accession:	YP_009725301

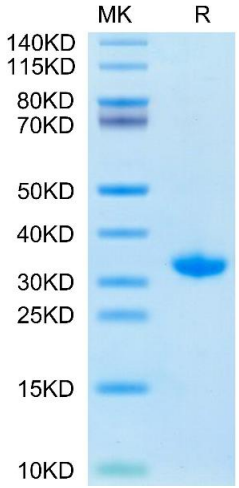
Application Details

Restrictions:	For Research Use only

Handling

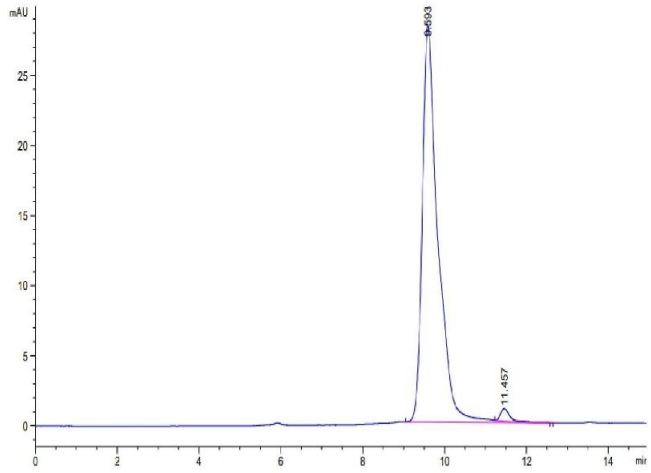
Format:	Liquid
Buffer:	Supplied as 0.22µm filtered solution in 25 mM HEPES, 2.5 mM DTT, 10 % Glycerol (pH 7.5).
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-80 °C
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Images



SDS-PAGE

Image 1. SARS-CoV-2 3CLpro (S144A) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of SARS-CoV-2 3CLpro (S144A) is greater than 95 % as determined by SEC-HPLC.

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