

Datasheet for ABIN6952484
SARS-CoV-2 Spike Peptide



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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Spike
Origin:	SARS Coronavirus-2 (SARS-CoV-2)
Source:	Synthetic
Application:	Inhibition Assay (InhA)

Product Details

Sequence:	ANQFNSAIGK IQDLSSTAS ALGKLQDVVN QNAQALNTLV KQ
Characteristics:	2019-nCov-HR1P
Purity:	≥ 95 %
Components:	Each vial contains 100 µg of NET peptide.

Target Details

Target:	SARS-CoV-2 Spike
Target Type:	Viral Protein
Molecular Weight:	4386.89
Gene ID:	43740568
UniProt:	P0DTC2

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Powder

Storage: RT, 4 °C, -20 °C

Storage Comment: Up to 6 months in lyophilized form at 0-5°C. For best results, rehydrate just before use. After rehydration, keep solution at -20°C for up to 3 months. Aliquot before freezing to avoid repeated freeze-thaw cycles.

Publications

Product cited in: Xia, Zhu, Liu, Lan, Xu, Wu, Ying, Liu, Shi, Jiang, Lu: "Fusion mechanism of 2019-nCoV and fusion inhibitors targeting HR1 domain in spike protein." in: **Cellular & molecular immunology**, (2020) ([PubMed](#)).

Lu: "Drug treatment options for the 2019-new coronavirus (2019-nCoV)." in: **Bioscience trends**, Vol. 14, Issue 1, pp. 69-71, (2020) ([PubMed](#)).

Xia, Yan, Xu, Agrawal, Algaissi, Tseng, Wang, Du, Tan, Wilson, Jiang, Yang, Lu: "A pan-coronavirus fusion inhibitor targeting the HR1 domain of human coronavirus spike." in: **Science advances**, Vol. 5, Issue 4, pp. eaav4580, (2019) ([PubMed](#)).



Image 1. HR1 residues involved in interactions with EK1 are conserved across different HCoVs. EK1 and HR1 residues linked with dashed lines locate to the same layers on the 3HR1 triple helix. Burying EK1 residues are shaded orange, and ridge-packing EK1 residues are shaded light yellow. HR1 residues that mediate assembly of the 3HR1 cores are shaded orange, while those involved in ridge packing are shaded yellow. HR1 residues that mediate conserved side chain-to-side chain and side chain-to-main chain hydrophilic interactions with EK1 residues are highlighted with cyan and red boxes, respectively.

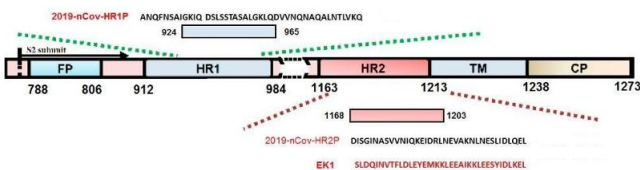


Image 2. Schematic representation of HCoV S protein. SP, signal peptide; FP, fusion peptide; HR, heptad repeat domain (HR1 and HR2); TM, transmembrane domain; CP, cytoplasmic domain. Corresponding sequences of the designed peptides (HR1Ps and HR2Ps).