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Datasheet for ABIN6952489

Coronavirus Spike Glycoprotein (CoV S) peptide (Cy5)

3 Images

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Overview

Quantity:	1 nmol
Target:	Coronavirus Spike Glycoprotein (CoV S)
Origin:	Middle East Respiratory Syndrome Coronavirus (MERS-CoV), SARS Coronavirus (SARS-CoV), SARS Coronavirus-2 (SARS-CoV-2)
Source:	Synthetic
Purification tag / Conjugate:	This Coronavirus Spike Glycoprotein peptide is labelled with Cy5.
Application:	Inhibition Assay (InHA)

Product Details

Sequence:	Cy5-SLDQINVTFL DLEYEMKKLE EAIKKLEESY IDLKEL
Characteristics:	EK1 / Pan-HCoV S Inhibitor - Cy5 Labeled
Purity:	≥ 90 %
Components:	Each vial contains 1 nmol of NET labeled peptide.

Target Details

Target:	Coronavirus Spike Glycoprotein (CoV S)
Target Type:	Viral Protein
Molecular Weight:	4332

Application Details

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

Restrictions: For Research Use only

Handling

Format: Powder

Storage: 4 °C

Storage Comment: Store in dry form in a dark place with temperature 0-5°C.

Publications

Product cited in: Ao, Chan, Ouyang, Olukitibi, Mahmoudi, Kobasa, Yao: "Identification and evaluation of the inhibitory effect of *Prunella vulgaris* extract on SARS-coronavirus 2 virus entry." in: **PLoS ONE**, Vol. 16, Issue 6, pp. e0251649, (2021) ([PubMed](#)).

Olaleye, Kaur, Onyenaka: "Ambroxol Hydrochloride Inhibits the Interaction between Severe Acute Respiratory Syndrome Coronavirus 2 Spike Protein's Receptor Binding Domain and Recombinant Human ACE2." in: **bioRxiv : the preprint server for biology**, (2020) ([PubMed](#)).

Olaleye, Kaur, Onyenaka, Adebussyi: "Discovery of Clioquinol and Analogues as Novel Inhibitors of Severe Acute Respiratory Syndrome Coronavirus 2 Infection, ACE2 and ACE2 - Spike Protein Interaction In Vitro." in: **bioRxiv : the preprint server for biology**, (2020) ([PubMed](#)).

Aguilar-Pineda, Albaghdadi, Jiang, Lopez, Del-Carpio, Valdez, Lindsay, Malhotra, Lino Cardenas: "Structural and functional analysis of female sex hormones against SARS-Cov2 cell entry." in: **bioRxiv : the preprint server for biology**, (2020) ([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.

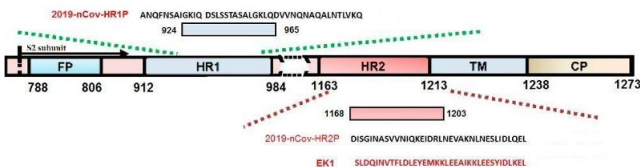


Image 3. Schematic representation of HCoV S protein. FP, fusion peptide; HR, heptad repeat domain (HR1 and HR2); TM, transmembrane domain; CP, cytoplasmic domain