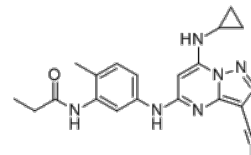


Product Name : SGC-CK2-1
Cat. No. : PC-72809
CAS No. : 2470424-39-4
Molecular Formula : C₂₀H₂₁N₇O
Molecular Weight : 375.436
Target : Casein Kinase
Solubility : 10 mM in DMSO



Biological Activity

SGC-CK2-1 is a potent, selective, cell active ATP-competitive inhibitor of host protein kinase **Casein Kinase 2 (CSNK2/CK2)**, pIC₅₀=8.3), inhibits the pathogenic β-coronaviruses including SARS-CoV-2 (MHV pIC₅₀=6.9).

Treatment of the HEK293T-ACE2 cells with 1 μM of the CSNK2A chemical probe SGC-CK2-1 or CSNK2A inhibitor 2 resulted in a 70–80% decrease in spike protein uptake.

Chemical probe SGC-CK2-1 showed inhibition of virus replication at nanomolar doses where it has remarkably high kinase selectivity.

References

Carrow I Wells, et al. *Cell Chem Biol.* 2021 Apr 15;28(4):546-558.e10.

Xuan Yang, et al. *bioRxiv.* 2022 Jan 4;2022.01.03.474779.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com