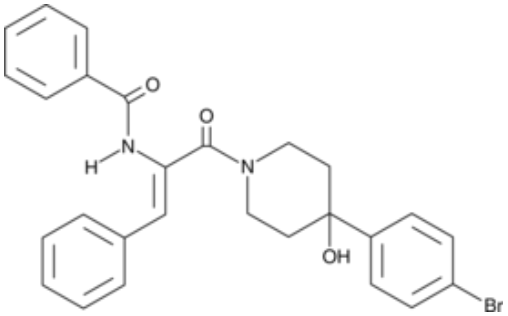
Product Data Sheet

Product Name: K22
Cat. No.: GC47521

Chemical Properties

Cas. No.	2141978-86-9		
SMILES	O=C(C1=CC=CC=C1)N/C(C(N2CCC(C3=CC=C(C=C3)Br)(CC2)O)=O)=C\C4=CC=CC=C4		
Formula	C27H25BrN2O3	M.Wt	505.4
Solubility	DMF: 30 mg/ml,DMSO: 30 mg/ml,Ethanol: 30 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

K22 is an antiviral agent.[1] It inhibits the replication of severe acute respiratory syndrome coronavirus (SARS-CoV), Middle East respiratory syndrome coronavirus (MERS-CoV), human coronavirus 229E (HCoV-229E), feline coronavirus (FCoV), and mouse hepatitis virus (MHV) in Vero cells when used at a concentration of 40 µM. K22 inhibits the formation of double membrane vesicles, a hallmark of coronavirus replication, and inhibits viral RNA synthesis in HCoV-229E-infected MRC-5 cells. It also reduces viral titers in cells infected with various *Arteriviridae* or *Torovirinae* viruses.[2]

Caution: Product has not been fully validated for medical applications. For research use only.
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1.Lundin, A., Dijkman, R., BergstrÖm, T., et al.Targeting membrane-bound viral RNA synthesis reveals potent inhibition of diverse coronaviruses including the Middle East respiratory syndrome virusPLoS Pathog.10(5)e1004166(2014) 2.Rappe, J.C.F., de Wilde, A., Di, H., et al.Antiviral activity of K22 against members of the order NidoviralesVirus Res.24628-34(2018)

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