

## 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

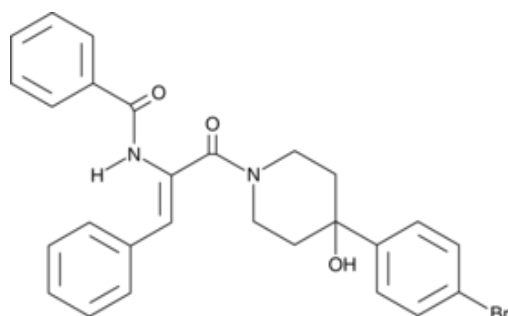
Formula C<sub>27</sub>H<sub>25</sub>BrN<sub>2</sub>O<sub>3</sub> M.Wt 505.4

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.<sup>1</sup> 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.<sup>2</sup>

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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 virus. *PLoS 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 Nidovirales. *Virus Res.* 246:28-34 (2018)

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