

Product Name : ZIKV inhibitor K22

Synonyms : —

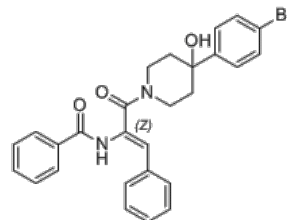
Cat No. : M13425

CAS Number : 2141978-86-9

Molecular Formula : C₂₇H₂₅BrN₂O₃

Formula Weight : 505.41

Chemical Name : (Z)-N-(3-(4-(4-bromophenyl)-4-hydroxypiperidin-1-yl)-3-oxo-1-phenylprop-1-en-2-yl)benzamide



Description : ZIKV inhibitor K22 is a small molecule that exerts a potent antiviral activity against a broad range of coronaviruses by targeting membrane-bound viral RNA replication, effectively inhibits ZIKV with IC₅₀ of 2.1 uM (48 h p.i); inhibits several members of the family Flaviviridae, blocks replication of ZIKV, yellow fever virus (YFV), Japanese encephalitis virus (JEV), West Nile virus (WNV), as well as to a certain extent, Usutu virus (USUV), Wesselsbron virus (WESSV), HCV and bovine viral diarrhea virus (BVDV) with IC₅₀s <10 uM; act on early post-entry stages of coronavirus replication and to target membrane-bound viral RNA synthesis.

Pathway : Microbiology/Virology

Target : Filovirus

Receptor : Filovirus

Solubility : —

SMILES : C1CN(CCC1(C2=CC=C(C(=C2)Br)O)C(=O)C(=CC3=CC=CC=C3)NC(=O)C4=CC=CC=C4

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. García-Nicolás O, et al. Antimicrob Agents Chemother. 2018 Sep 4, pii: AAC.01206-18.