

Product Name: K 22

Catalog No.: 7338

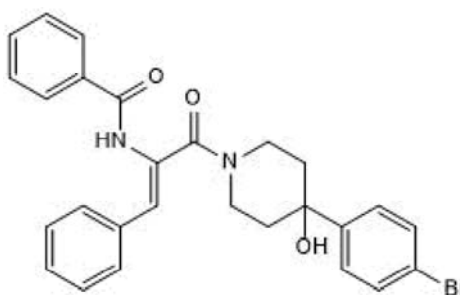
Batch No.: 1

CAS Number: 2141978-86-9

IUPAC Name: *N*-[(1*Z*)-1-[[4-(4-Bromophenyl)-4-hydroxy-1-piperidinyl]carbonyl]-2-phenylethenyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₅BrN₂O₃
Batch Molecular Weight: 505.41
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.17	4.99	5.54
Found	63.99	5.03	5.57

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: K 22

Catalog No.: 7338

Batch No.: 1

CAS Number: 2141978-86-9

IUPAC Name: N-[(1Z)-1-[4-(4-Bromophenyl)-4-hydroxy-1-piperidinyl]carbonyl]-2-phenylethenyl]benzamide

Description:

Viral RNA synthesis inhibitor; targets membrane-bound coronavirus RNA replication by inhibiting double membrane vesicle (DMV) formation. Inhibits HCoV-229E infection of MRC-5 cells in a plaque forming assay ($IC_{50} = 0.7 \mu M$). Also inhibits HCoV-229E and MERS-CoV replication in human airway epithelia cultures.

Physical and Chemical Properties:

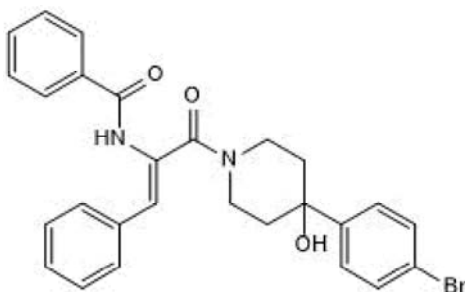
Batch Molecular Formula: $C_{27}H_{25}BrN_2O_3$

Batch Molecular Weight: 505.41

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Lundin *et al* (2014) Targeting membrane-bound viral RNA synthesis reveals potent inhibition of diverse coronaviruses including the middle East respiratory syndrome virus. *PLoS Pathog.* **10** e1004166. PMID: 24874215.

Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956