

Certificate of Analysis

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Product Name: Covidcil-19

Catalog No.: 7485

Batch No.: 1

CAS Number: 1225177-95-6

IUPAC Name: 3-[[4-(Methylamino)-2-quinazoliny]amino]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₄N₄O₂.H₂O

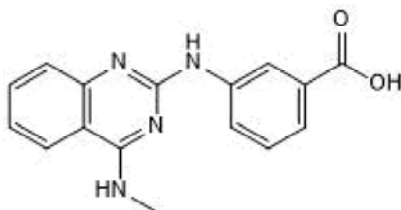
Batch Molecular Weight: 312.33

Physical Appearance: White solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.53	5.16	17.94
Found	61.15	5.24	17.73

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

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Description:

Covidcil-19 binds to the revised attenuator hairpin structure of the SARS-CoV-2 frameshifting element (FSE) with high affinity ($K_d = 11$ nM). It stabilizes the hairpin's folded state and reduces frameshifting efficiency in cells. Covidcil-19 inhibits viral propagation and reduces viral infectivity by > 3.5 orders of magnitude.

Physical and Chemical Properties:

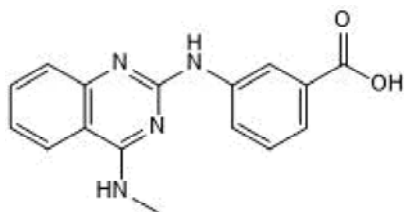
Batch Molecular Formula: $C_{16}H_{14}N_4O_2 \cdot H_2O$

Batch Molecular Weight: 312.33

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 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°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°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Giorgio *et al* (2020) New chemical modalities enabling specific RNA targeting and degradation: application to SARS-CoV-2 RNA. *ACS Cent.Sci.* **6** 1647. PMID: 33140031.

Haniff *et al* (2020) Targeting the SARS-CoV-2 RNA genome with small molecule binders and ribonuclease targeting chimera (RIBOTAC) degraders. *ACS Cent.Sci.* **6** 1713. PMID: 33140033.

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