

Certificate of Analysis

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Product Name: KM 11060

Catalog No.: 3143

Batch No.: 1

CAS Number: 774549-97-2

IUPAC Name: 7-Chloro-4-[4-[4-chlorophenyl)sulfonyl]-1-piperazinyl]quinoline

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{17}Cl_2N_3O_2S \cdot \frac{1}{4}H_2O$

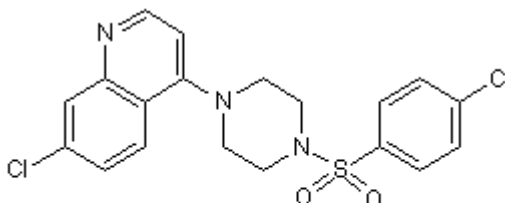
Batch Molecular Weight: 426.83

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Store at RT

Batch Molecular Structure:



$C_{19}H_{17}Cl_2N_3O_2S$
Exact Mass: 421.04
Mol. Wt.: 422.33

2. ANALYTICAL DATA

HPLC: Shows >98.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 53.47 4.13 9.84

Found 53.07 4.06 9.71

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

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Description:

Corrects F508del-CFTR trafficking; increases the amount of functional CFTR at the plasma membrane (~75%). Shown to inhibit PDE5 activity.

Physical and Chemical Properties:

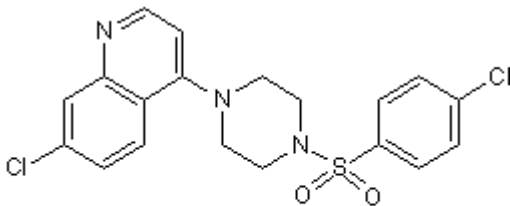
Batch Molecular Formula: C₁₉H₁₇Cl₂N₃O₂S·¼H₂O

Batch Molecular Weight: 426.83

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



C₁₉H₁₇Cl₂N₃O₂S
Exact Mass: 421.04
Mol. Wt.: 422.33

References:

Robert et al (2008) Structural analog of Sildenafil identified as a novel corrector of the F508del-CFTR trafficking defect. *Mol.Pharmacol.* **73** 478. PMID: 17975008.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

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