

Certificate of Analysis

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Product Name: Cardiogenol C hydrochloride

Catalog No.: 3851

Batch No.: 1

CAS Number: 1049741-55-0

IUPAC Name: 4-(2-Hydroxyethylamino)-2-(4-methoxyphenylamino)-pyrimidine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{16}N_4O_2 \cdot HCl \cdot \frac{1}{4}H_2O$

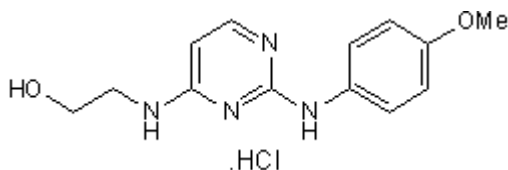
Batch Molecular Weight: 301.25

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.83	5.85	18.6
Found	52.2	5.92	18.35

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

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IUPAC Name: 4-(2-Hydroxyethylamino)-2-(4-methoxyphenylamino)-pyrimidine hydrochloride

Description:

Induces differentiation of mouse embryonic stem cells (ESCs) into cardiomyocytes (EC₅₀ = 100 nM).

Physical and Chemical Properties:

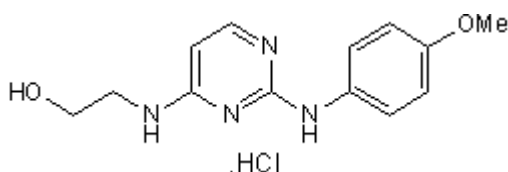
Batch Molecular Formula: C₁₃H₁₆N₄O₂.HCl.¼H₂O

Batch Molecular Weight: 301.25

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

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°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:

Wu *et al* (2004) Small molecules that induce cardiomyogenesis in embryonic stem cells. *J.Am.Chem.Soc.* **126** 1590. PMID: 14871063.

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