

Product Name: NSC 23766

Catalog No.: 2161

Batch No.: 6

CAS Number: 1177865-17-6

IUPAC Name: *N*⁶-[2-[[4-(Diethylamino)-1-methylbutyl]amino]-6-methyl-4-pyrimidinyl]-2-methyl-4,6-quinolinediamine trihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₃₅N₇.3HCl.4H₂O

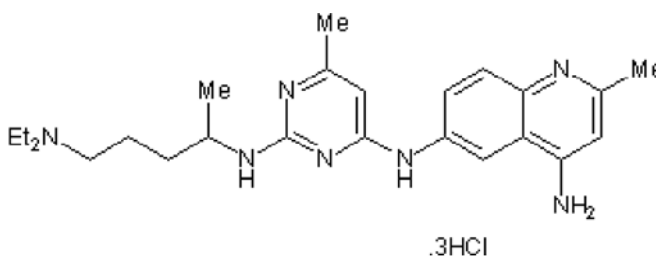
Batch Molecular Weight: 603.03

Physical Appearance: Off-white solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.41 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.8	7.69	16.26
Found	47.69	7.47	16.18

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Description:

Selective inhibitor of Rac1-GEF interaction. Prevents Rac1 activation by Rac-specific guanine nucleotide exchange factors (GEFs) TrioN and Tiam1 (IC₅₀ ~ 50 μM) without affecting Cdc42 or RhoA activation. Inhibits Rac1-mediated cell functions and is reported to reverse tumor cell phenotypes in prostate cancer cells.

Physical and Chemical Properties:

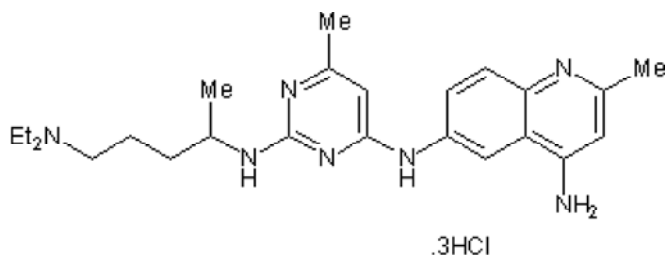
Batch Molecular Formula: C₂₄H₃₅N₇.3HCl.4H₂O

Batch Molecular Weight: 603.03

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

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:

Gao *et al* (2004) Rational design and characterization of a Rac GTPase-specific small molecule inhibitor. Proc.Natl.Acad.Sci.USA **101** 7618.

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