TOCRIS
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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **Pyridostatin pentahydrochloride** **Catalog No.: 4763** **Batch No.: 1**

IUPAC Name: 4-(2-Aminoethoxy)N^2,N^6-bis[(4-(2-aminoethoxy)-2-quinolinyl]-2,6-pyridinecarboxamide pentahydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{31}H_{32}N_8O_5.5HCl.3H_2O$

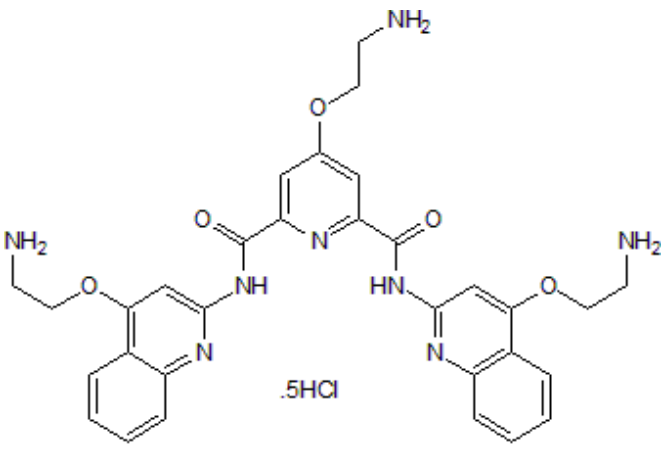
Batch Molecular Weight: 832.99

Physical Appearance: Cream solid

Solubility: water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >98.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	44.7	5.2	13.45	21.28
Found	44.74	5.49	13.27	21.39

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Product Information

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Description:

Binds and stabilizes G-quadruplexes, inducing DNA damage and cell cycle arrest (K_d = 490 nM); targets the proto-oncogene Src, reducing Src protein abundance and Src-dependent motility in human breast cancer cells. Also targets telomeric G-quadruplexes, inducing telomerase dysfunction. Activates the DNA-dependent protein kinase catalytic sunbunit (DNA-PKcs).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{31}H_{32}N_8O_5.5HCl.3H_2O$

Batch Molecular Weight: 832.99

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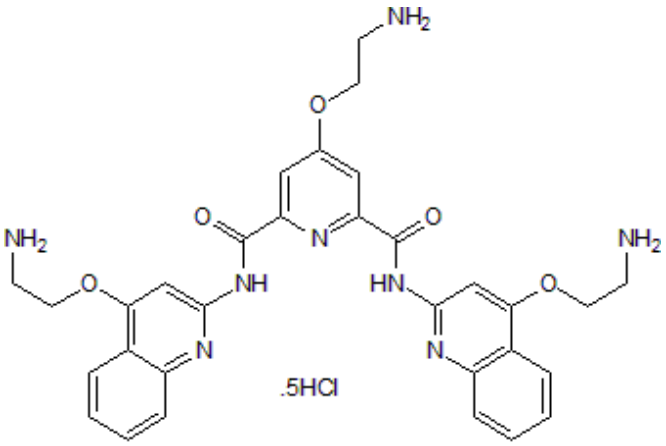
Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water 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:

Müller *et al* (2010) Small-molecule-mediated G-quadruplex isolation from human cells. Nat.Chem. ***2*** 1095. PMID: 21107376.

Koirala *et al* (2011) A single-molecule platform for investigation of interactions between G-quadruplexes and small-molecule ligands. Nat.Chem. ***3*** 782. PMID: 21941250 .

Rodriguez *et al* (20112) Small-molecule-induced DNA damage identifies alternative DNA structures in human genes. Nat.Chem.Biol. ***8*** 301. PMID: 22306580.