

Product Name: BRACO 19 trihydrochloride

Catalog No.: 5312

Batch No.: 1

CAS Number: 1177798-88-7

IUPAC Name: *N,N'*-[9[[4-(Dimethylamino)phenyl]amino]-3,6-acridinediyl]bis-1-pyrrolidinepropanamide trihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₅H₄₃N₇O₂·3HCl·4½H₂O

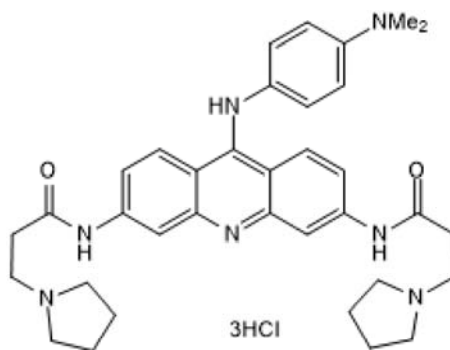
Batch Molecular Weight: 784.21

Physical Appearance: Brown solid

Solubility: water to 50 mM
DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.16 (20% MeOH in DCM with 0.2% aq. NH₄OH)

HPLC: Shows 94.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.61	7.07	12.5
Found	53.46	6.8	12.37

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

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Description:

BRACO 19 trihydrochloride is a telomerase inhibitor (IC₅₀ = 115 nM). Inhibits expression of human telomerase reverse transcriptase (hTERT), induces cellular senescence and inhibits growth of uterine cancer cells in vitro. Inhibits growth of uterine tumor xenografts in mice.

Physical and Chemical Properties:

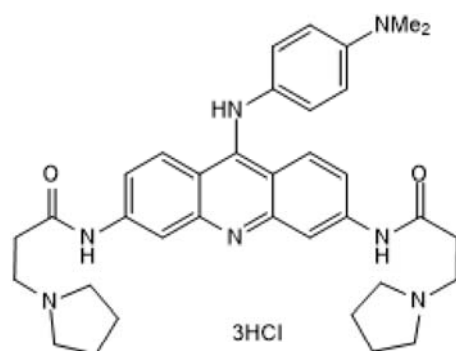
Batch Molecular Formula: C₃₅H₄₃N₇O₂·3HCl·4½H₂O

Batch Molecular Weight: 784.21

Physical Appearance: Brown solid

Minimum Purity: ≥94%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 50 mM

DMSO to 50 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:

Burger et al (2005) The G-quadruplex-interactive molecule BRACO-19 inhibits tumor growth, consistent with telomere targeting and interference with telomerase function. *Cancer Res.* **15** 1489. PMID: 15735037.

Gowan et al (2002) A G-quadruplex-interactive potent small-molecule inhibitor of telomerase exhibiting in vitro and in vivo antitumor activity. *Mol.Pharmacol.* **61** 1154. PMID: 11961134.

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