

Certificate of Analysis

Product Name: iMAC2

Catalog No.: 3794

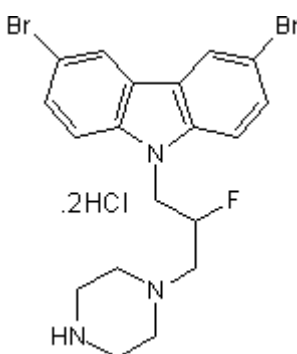
Batch No.: 1

CAS Number: 335166-00-2

IUPAC Name: 3,6-Dibromo-9-[2-fluoro-3-(1-piperazinyl)propyl]-9*H*-carbazole dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₀Br₂FN₃·2HCl·H₂O
Batch Molecular Weight: 560.13
Physical Appearance: White solid
Solubility: DMSO to 5 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.28 (Chloroform:Methanol [9:1])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.74	4.32	7.5
Found	40.69	4.35	7.48

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

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Description:

Inhibitor of mitochondrial apoptosis-induced channel (MAC) (IC_{50} = 28 nM). Reduces STS-induced apoptosis in FL5.12 cells by over 50%. Inhibits release of cytochrome c by Bid-induced Bax activation (IC_{50} = 0.68 μ M).

Physical and Chemical Properties:

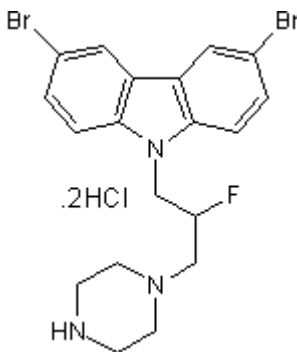
Batch Molecular Formula: $C_{19}H_{20}Br_2FN_3 \cdot 2HCl \cdot H_2O$

Batch Molecular Weight: 560.13

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 5 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:

Bombrun et al (2003) 3,6-dibromocarbazole piperazine derivatives of 2-propanol as first inhibitors of cytochrome c release via Bax channel modulation. *J. Med. Chem.* **46** 4365. PMID: 14521400.

Peixoto et al (2009) MAC inhibitors suppress mitochondrial apoptosis. *Biochem. J.* **423** 381. PMID: 19691447.

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