

**Product Name:** iMAC2

**Catalog No.:** 3794

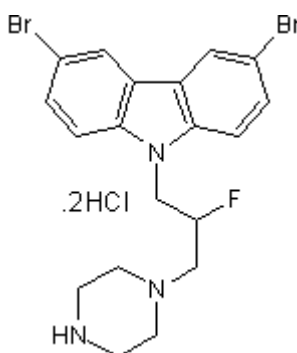
**Batch No.:** 1

**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:** C<sub>19</sub>H<sub>20</sub>Br<sub>2</sub>FN<sub>3</sub>.2HCl.H<sub>2</sub>O  
**Batch Molecular Weight:** 560.13  
**Physical Appearance:** White powder  
**Solubility:** DMSO to 5 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.28 (Chloroform:Methanol [9:1])  
**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H 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

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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  $\mu$ M).

**Physical and Chemical Properties:**

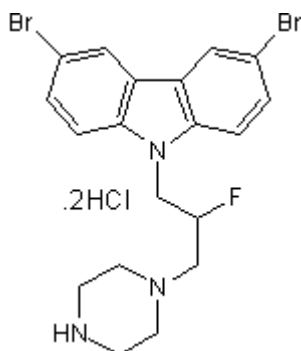
Batch Molecular Formula:  $C_{19}H_{20}Br_2FN_3 \cdot 2HCl \cdot H_2O$

Batch Molecular Weight: 560.13

Physical Appearance: White powder

**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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