Print Date: Aug 7th 2019

Certificate of Analysis

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Product Name: **Bax channel blocker** **Catalog No.: 2160** **Batch No.: 1**

CAS Number: 329349-20-4

IUPAC Name: 3,6-Dibromo-α-(1-piperazinylmethyl)-9*H*-carbazole-9-ethanol dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{21}Br_2N_3O.H_2O$

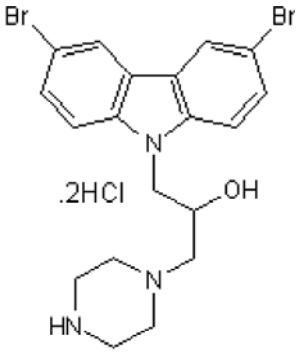
Batch Molecular Weight: 558.14

Physical Appearance: White solid

Solubility: water to 5 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Chloroform:Methanol [99:1])

Melting Point: Between 300 - 304°C

HPLC: Shows >98.4% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.89	4.51	7.53
Found	40.89	4.45	7.51

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Description:

Allosteric inhibitor of Bax channel activation. Binds inactive Bax at allosteric site and inhibits tBID-mediated Bax activation (IC_{50} = 3.3 μM). Selectively inhibits Bax-dependent apoptosis. Potent inhibitor of Bax-mediated mitochondrial cytochrome c release (IC_{50} = 0.52 μM).

Physical and Chemical Properties:

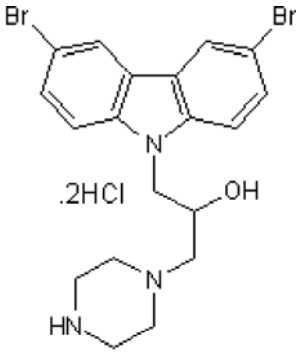
Batch Molecular Formula: $C_{19}H_{21}Br_2N_3O.H_2O$

Batch Molecular Weight: 558.14

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 5 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:

Garner *et al* (2019) Small-molecule allosteric inhibitors of BAX. Nat.Chem.Biol. ***15*** 322. PMID: 30718816.

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*** 21.