

Product Name: Bax channel blocker

Catalog No.: 2160

Batch No.: 2

CAS Number: 329349-20-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁Br₂N₃O.2HCl.1 $\frac{3}{4}$ H₂O

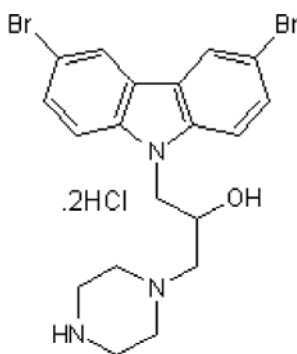
Batch Molecular Weight: 571.64

Physical Appearance: White solid

Solubility: water to 5 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	39.92	4.67	7.35	12.4
Found	39.22	4.59	7.07	12.7

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

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CAS Number: 329349-20-4

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

Description:

Bax channel blocker is a allosteric inhibitor of Bax channel activation. Binds inactive Bax at allosteric site and inhibits tBID-mediated Bax activation ($IC_{50} = 3.3 \mu M$). Selectively inhibits Bax-dependent apoptosis. Potent inhibitor of Bax-mediated mitochondrial cytochrome c release ($IC_{50} = 0.52 \mu M$).

Physical and Chemical Properties:

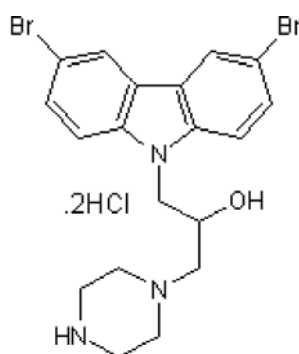
Batch Molecular Formula: $C_{19}H_{21}Br_2N_3O \cdot 2HCl \cdot 1\frac{1}{4}H_2O$

Batch Molecular Weight: 571.64

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

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.

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