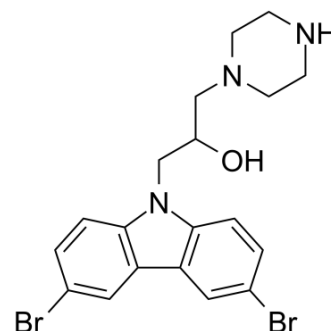


## BAI1

<b>Cat. No.:</b>	HY-103269		
<b>CAS No.:</b>	335165-68-9		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>21</sub> Br <sub>2</sub> N <sub>3</sub> O		
<b>Molecular Weight:</b>	467.2		
<b>Target:</b>	Bcl-2 Family; Apoptosis		
<b>Pathway:</b>	Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 18.67 mg/mL (39.96 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1404 mL	10.7021 mL	21.4041 mL
	5 mM	0.4281 mL	2.1404 mL	4.2808 mL
	10 mM	0.2140 mL	1.0702 mL	2.1404 mL

Please refer to the solubility information to select the appropriate solvent.

### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 1.87 mg/mL (4.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 1.87 mg/mL (4.00 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

BAI1 is a selective and allosteric inhibitor of BAX, an apoptosis regulator. BAI1 directly binds to BAX and allosterically inhibits BAX activation. BAI1 has the potential for the research of diseases mediated by BAX-dependent cell death<sup>[1]</sup>.

### IC<sub>50</sub> & Target

Bax

### In Vitro

BAI1 selectively inhibits BAX-mediated apoptotic cell death<sup>[1]</sup>.  
 BAI1 shows inhibition of tBID (HY-100464)-induced BAX-mediated membrane permeabilization in a dose dependent manner with an IC<sub>50</sub> of 3.3 μM<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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### Apoptosis Analysis<sup>[1]</sup>

Cell Line:	Mouse MEF
Concentration:	0.3125 $\mu$ M , 0.625 $\mu$ M, 1 $\mu$ M, 1.25 $\mu$ M, 1.5 $\mu$ M, 2.5 $\mu$ M , 3 $\mu$ M, 4 $\mu$ M, 5 4 $\mu$ M, 10 4 $\mu$ M
Incubation Time:	8 hours
Result:	Inhibited cell death in BAX-dependent manner.

## REFERENCES

[1]. Garner TP, et al. Small-molecule allosteric inhibitors of BAX. Nat Chem Biol. 2019 Apr;15(4):322-330.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA