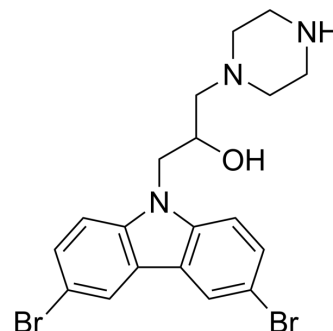


BAI1

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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 18.67 mg/mL (39.96 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	<ol style="list-style-type: none"> 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 ^[1] .
IC₅₀ & Target	Bax
In Vitro	<p>BAI1 selectively inhibits BAX-mediated apoptotic cell death^[1].</p> <p>?BAI1 shows inhibition of tBID (HY-100464)-induced BAX-mediated membrane permeabilization in a dose dependent manner with an IC₅₀ of 3.3 μM^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis^[1]</p>

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

CUSTOMER VALIDATION

- Adv Funct Mater. 2023 Apr 28.
- Int J Mol Sci. 2023 May 11, 24(10), 8609.
- University of Rijeka. Faculty of Medicine. 2021 Jun.

See more customer validations on www.MedChemExpress.com

REFERENCES

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

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

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