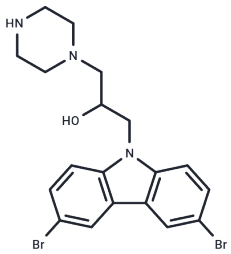
Data Sheet (Cat.No.T5210)

BAI1

Chemical Properties



CAS No. :	335165-68-9
Formula:	C19H21Br2N3O
Molecular Weight:	467.2
Storage:	Keep away from direct sunlight,Keep away from moisture Powder: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	BAI1 (Bax channel blocker) is a potent inhibitor of Bax-mediated mitochondrial cytochrome C release (IC50: 0.52 μM).
Targets(IC50)	Apoptosis,Bcl-2 Family
In vitro	V-9302 inhibited ASCT2-mediated glutamine uptake in human cells in a concentration-dependent fashion and exhibited a 100-fold improvement in potency (IC50 V-9302 = 9.6 μM) over gamma-L-glutamyl-p-nitroanilide (GPNA; IC50 = 1000 μM). The EC50 concentration

Solubility Information

Solubility	H2O: Insoluble, DMSO: 9.52 mg/mL (20.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.14 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1404 mL	10.7021 mL	21.4041 mL
5 mM	0.4281 mL	2.1404 mL	4.2808 mL
10 mM	0.214 mL	1.0702 mL	2.1404 mL
50 mM	0.0428 mL	0.214 mL	0.4281 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bombrun A, et al. 3,6-dibromocarbazole piperazine derivatives of 2-propanol as first inhibitors of cytochrome c release via Bax channel modulation. J Med Chem. 2003 Oct 9;46(21):4365-8.
Garner TP, et al. Small-molecule allosteric inhibitors of BAX. Nat Chem Biol. 2019 Apr;15(4):322-330.