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Product Name: HA14-1 Revision Date: 01/10/2021

Product Data Sheet

HA14-1

Cat. No.:	A8168	NH ₂
CAS No.:	65673-63-4	O OEt
Formula:	C17H17BrN2O5	
M.Wt:	409.23	
Synonyms:		
Target:	Apoptosis	
Pathway:	Bcl-2 Family	Br EtO
Storage:	Desiccate at -20°C	°0
	BIO	BIO
Solvent	& Solubility	APP
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Solvent & Solubility

	insoluble in H2O; \geq	insoluble in H2O; \geq 20.45 mg/mL in DMSO; \geq 41.53 mg/mL in EtOH with ultrasonic			
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	2.4436 mL	12.2181 mL	24.4361 mL
		5 mM	0.4887 mL	2.4436 mL	4.8872 mL
	PERF	10 mM	0.2444 mL	1.2218 mL	2.4436 mL

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

Biological Activity

Bcl-2 inhibitor, potent and cell-permeable			
9 µM (Bcl-2)			
Cell Viability Assay			
Cell Line:	HL-60 cells, follicular lymphoma B cell lines, HF1A3, HF4.9 and HF28RA cells		
Preparation method:	The solubility of this compound in DMSO is >20.5 mg/mL. General tips for		
	obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes		
	and/or shake it in the ultrasonic bath for a while. Stock solution can be stored		
	below -20°C for several months.		
Reacting conditions:	50 μM, 4 h		
	9 μM (Bcl-2) Cell Viability Assay Cell Line: Preparation method:		

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-	Applications:	In HI 60 calls HA14.1 induced call death in a dose dependent menner
	Applications:	In HL-60 cells, HA14-1 induced cell death in a dose-dependent manner.
		HA14-1 (50 μ M) caused the loss of viability in more than 90% of the cells. In
		HL-60 cells, treatment with 50 μM HA14-1 by 3 h displayed the characteristic
		pattern of DNA fragmentation. HA14-1 decreased cell viability and induced
		apoptosis in follicular lymphoma B cell lines, HF1A3, HF4.9 and HF28RA cells.
	819	HA14-1 (10-20 $\mu \text{mol/L})$ increased sensitivity of human glioblastoma cells to
	OF STATE	radiotherapy-induced apoptosis and chemotherapy-induced apoptosis.
	Animal experiment	
	Animal models:	Swiss nude mice challenged with BeGBM cells
	Dosage form:	Intraperitoneal injection, 400 nM, once weekly from day 2
	Applications:	In Swiss nude mice challenged with BeGBM cells, HA14-1 (400 nmol, once
		weekly from day 2) did not have any significant effect on the growth of
In Vivo		glioblastoma tumors in immunodeficient mice. HA14-1 (400 nM) increased the
		effect of the DNA-damaging agent etoposide (2.5 mg/kg) on glioblastoma
	a10	growth in vivo.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	Plant .	slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Wang J L, Liu D, Zhang Z J, et al. Structure-based discovery of an organic compound that binds Bcl-2 protein and induces apoptosis of tumor cells[J]. Proceedings of the National Academy of Sciences, 2000, 97(13): 7124-7129.

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[2]. Skommer J, Wlodkowic D, Mtt M, et al. HA14-1, a small molecule Bcl-2 antagonist, induces apoptosis and modulates action of selected anticancer drugs in follicular lymphoma B cells[J]. Leukemia research, 2006, 30(3): 322-331.

[3]. Manero F, Gautier F, Gallenne T, et al. The small organic compound HA14-1 prevents Bcl-2 interaction with Bax to sensitize malignant glioma cells to induction of cell death[J]. Cancer research, 2006, 66(5): 2757-2764.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage

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temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



APExBIO Technology

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