

Product Name: Bexarotene Revision Date: 01/10/2021

Product Data Sheet

Bexarotene

Cat. No.:	A8380	но
CAS No.:	153559-49-0	
Formula:	C24H28O2	
M.Wt:	348	
Synonyms:		
Target:	Others	
Pathway:	Retinoid X Receptors	The cost of
Storage:	Store at -20°C	
	810	310
Solvent	& Solubility	PE

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	insoluble in H2O; ≥10.35 mg/mL in DMSO; ≥11.34 mg/mL in EtOH				
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
		1 mM	2.8736 mL	14.3678 mL	28.7356 mL
		5 mM	0.5747 mL	2.8736 mL	5.7471 mL
		10 mM	0.2874 mL	1.4368 mL	2.8736 mL

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

Biological Activity

Shortsummary

Retinoid Receptor agonist

IC₅₀ & Target

In Vitro

Cell Viability Assay	and the second sec
Cell Line:	MJ, Hut78 and HH cell lines
Preparation method:	The solubility of this compound in DMSO is > 10.4 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:	0.1, 1 and 10 μM; 24, 48, 72 and 96 hrs

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	Applications:	In MJ, Hut78 and HH cell lines, Bexarotene treatment for 96 hrs		
		dose-dependently inhibited cell growth. In addition, Bexarotene increased the		
		number of cells in the sub-G1 phase in a dose-dependent manner, which was		
		accompanied by a loss of cells in the G1, S, and G2-M phases. However,		
		Bexarotene did not show significant inhibition effect on cell growth an		
	a10	apoptosis at the dose of 0.1 to 10 μM over the period of 24 to 72 hrs in all 3 cell		
	SEL Provinci	lines.		
	Animal experiment	Service Particular		
	Animal models:	MMTV-erbB2 mice		
	Dosage form:	100 mg/kg; p.o.; q.d., 6 days per week		
Applications: I		In MMTV-erbB2 mice, Bexarotene treatment prevented the development of		
		hyperplasias or mammary intraepithelial neoplasia (MIN) lesions. Moreover,		
		Bexarotene significantly inhibited mammary gland proliferation after 2- and 4-		
In Vivo		month treatments. The immunohistochemical results showed that less than 1%		
	810	of mammary epithelial cells in the Bexarotene treatment group showed positive		
	OF	caspase 3 staining, indicating that the cancer preventive effect of Bexarotene		
	A Barren	was not attributed to the induction of apoptosis.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
		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]. Zhang C, Hazarika P, Ni X, Weidner DA, Duvic M. Induction of apoptosis by bexarotene in cutaneous T-cell lymphoma cells: relevance to mechanism of therapeutic action. Clin Cancer Res. 2002 May;8(5):1234-40.

[2]. Li Y, Zhang Y, Hill J, Kim HT, Shen Q, Bissonnette RP, Lamph WW, Brown PH. The rexinoid, bexarotene, prevents the development of premalignant lesions in MMTV-erbB2 mice. Br J Cancer. 2008 Apr 22;98(8):1380-8.

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

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under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage 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.

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