

Product Name: Tretinoin (Aberela) Revision Date: 08/22/2024

### **Product Data Sheet**

# Tretinoin (Aberela

Cat. No.:	A8539 2010
CAS No.:	302-79-4
Formula:	C20H28O2
M.Wt:	300.4
Synonyms:	
Target:	Others
Pathway:	RARs
Storage:	Store at -20°C
	Bine Unecon

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	insoluble in H2O;	insoluble in H2O; $\geq$ 11.9 mg/mL in DMSO; $\geq$ 5.77 mg/mL in EtOH with ultrasonic				
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg	
		1 mM	3.3289 mL	16.6445 mL	33.2889 mL	
		5 mM	0.6658 mL	3.3289 mL	6.6578 mL	
		10 mM	0.3329 mL	1.6644 mL	3.3289 mL	

### **Biological Activity**

Shortsummary

retinoic acid, treats acne vulgaris and keratosis pilaris

IC<sub>50</sub> & Target

In Vitro

Cell Viability Assay	<b>SET</b> ENDER	
Cell Line: 200 500	Mesangial cells	
Preparation method:	The solubility of this compound in DMSO is > 11.9 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 ~ 25 μM; 0 ~ 24 hrs	

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	Applications:	Tretinoin prevented H2O2-induced cell damage by increasing both the			
		catalase activity and the reduced glutathione level in dose- and			
		time-dependent manners. In mesangial cells, Tretinoin increased the levels of			
		catalase mRNA and gamma-glutamyl-cysteine synthetase (catalytic subunit)			
	Bunnon	mRNA, the latter being involved in the rate-limiting step for the de novo			
	Exportine	synthesis of reduced glutathione.			
	Animal experiment	and the second			
	Animal models:	Male Fischer 344 rats			
	Dosage form:	1 mg/kg/day; p.o.			
	Applications:	In male Fischer 344 rats, Tretinoin at the dose of 1 mg/kg/day did not caused			
		any toxic effect. Compared with age-matched control animals, rats treated with			
In Vivo		Tretinoin showed lower protein content in the renal cortex. But there was no			
		difference in the DNA content of the renal cortex between the control group and			
		the Tretinoin treatment group.			
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may			
	Red on Engan	slightly differ with the theoretical value. This is caused by an experimental			
	A Louise Po.	system error and it is normal.			

### **Product Citations**

See more customer validations on www.apexbt.com.





[1]. Manzano VM, Puyol MR, Puyol DR, et al. Tretinoin prevents age-related renal changes and stimulates antioxidant defenses in cultured renal mesangial cells. J Pharmacol Exp Ther, 1999, 289(1): 123-132.

#### 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 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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