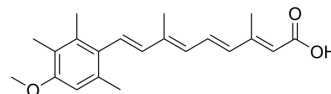


## Acitretin

<b>Cat. No.:</b>	HY-B0107												
<b>CAS No.:</b>	55079-83-9												
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub>												
<b>Molecular Weight:</b>	326.43												
<b>Target:</b>	RAR/RXR; Autophagy; Apoptosis												
<b>Pathway:</b>	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Autophagy; Apoptosis												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 20 mg/mL (61.27 mM; Need ultrasonic)			
	H <sub>2</sub> O : < 0.1 mg/mL (ultrasonic) (insoluble)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	3.0634 mL	15.3172 mL	30.6344 mL
	<b>5 mM</b>	0.6127 mL	3.0634 mL	6.1269 mL
	<b>10 mM</b>	0.3063 mL	1.5317 mL	3.0634 mL
	Please refer to the solubility information to select the appropriate solvent.			
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2 mg/mL (6.13 mM); Suspended solution; Need ultrasonic			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (6.13 mM); Suspended solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (6.13 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Acitretin (Ro 10-1670) is a second-generation, systemic retinoid that has been used in the treatment of psoriasis. Acitretin also can be used for the research of Alzheimer's disease <sup>[1][2][3]</sup> .
<b>In Vivo</b>	Acitretin (10 mg/kg; i.p. for 7 days) increases IL-6 in the central nervous system of Alzheimer's disease model mice <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

---

## CUSTOMER VALIDATION

- Eur J Pharmacol. 2019 May 15;851:174-185.
- Fundam Clin Pharmacol. 2020 Jun;34(3):380-388.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

---

## REFERENCES

- [1]. Lee CS, et al. A review of acitretin, a systemic retinoid for the treatment of psoriasis. *Expert Opin Pharmacother*. 2005 Aug;6(10):1725-34.
- [2]. Sengör B, et al. Effects of acitretin on spermatogenesis of rats. *J Eur Acad Dermatol Venereol*. 2006 Jul;20(6):689-92.
- [3]. Guilherme MDS, et, al. The Synthetic Retinoid Acitretin Increases IL-6 in the Central Nervous System of Alzheimer Disease Model Mice and Human Patients. *Front Aging Neurosci*. 2019 Jul 23;11:182.
- 

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA