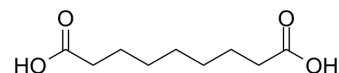


## Azelaic acid

Cat. No.:	HY-B0704		
CAS No.:	123-99-9		
Molecular Formula:	C <sub>9</sub> H <sub>16</sub> O <sub>4</sub>		
Molecular Weight:	188.22		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (531.29 mM)  
 H<sub>2</sub>O : 2 mg/mL (10.63 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.3129 mL	26.5647 mL	53.1293 mL
	5 mM	1.0626 mL	5.3129 mL	10.6259 mL
	10 mM	0.5313 mL	2.6565 mL	5.3129 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Azelaic acid is an organic compound produced by the ozonolysis of oleic acid; component of a number of hair and skin conditioners.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

---

## CUSTOMER VALIDATION

- Katedra farmakologie a toxikologie. 2020 Jul.

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

---

## REFERENCES

- [1]. Jung HW, et al. Priming in systemic plant immunity. *Science*. 2009 Apr 3;324(5923):89-91.
- [2]. Liu RH, et al. Azelaic acid in the treatment of papulopustular rosacea: a systematic review of randomized controlled trials. *Arch Dermatol*. 2006 Aug;142(8):1047-52.
- 

**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