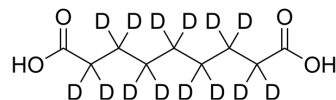


Azelaic acid-d₁₄

Cat. No.:	HY-B0704S		
CAS No.:	119176-67-9		
Molecular Formula:	C ₉ H ₂ D ₁₄ O ₄		
Molecular Weight:	202.31		
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



BIOLOGICAL ACTIVITY

Description	Azelaic acid-d ₁₄ is the deuterium labeled Azelaic acid[1]. Azelaic acid is an organic compound produced by the ozonolysis of oleic acid; component of a number of hair and skin conditioners[2][3].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Jung HW, et al. Priming in systemic plant immunity. *Science*. 2009 Apr 3;324(5923):89-91.
- [3]. 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.

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