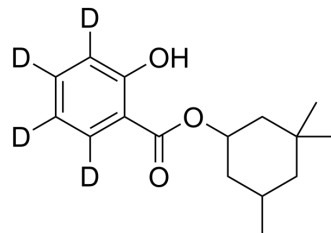


Homosalate-d₄

Cat. No.:	HY-B0928S		
Molecular Formula:	C ₁₆ H ₁₈ D ₄ O ₃		
Molecular Weight:	266.37		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Pure form	-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 (375.42 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.7542 mL	18.7709 mL	37.5418 mL
	5 mM	0.7508 mL	3.7542 mL	7.5084 mL
	10 mM	0.3754 mL	1.8771 mL	3.7542 mL

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

BIOLOGICAL ACTIVITY

Description

Homosalate-d₄ is the deuterium labeled Homosalate. Homosalate is an organic compound used in some sunscreens, it is used as a chemical UV filter, protecting the skin from sun damage.

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;53(2):211-216.

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

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