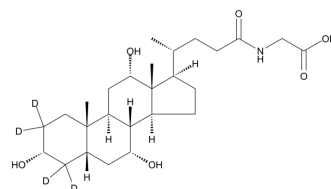


Glycocholic acid-d₄

Cat. No.:	HY-N1423S		
CAS No.:	1201918-15-1		
Molecular Formula:	C ₂₆ H ₃₉ D ₄ NO ₆		
Molecular Weight:	469.65		
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 (212.92 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1292 mL	10.6462 mL	21.2925 mL
5 mM	0.4258 mL	2.1292 mL	4.2585 mL
10 mM	0.2129 mL	1.0646 mL	2.1292 mL

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

BIOLOGICAL ACTIVITY

Description

Glycocholic acid-d₄ is the deuterium labeled Glycocholic acid. Glycocholic acid is a bile acid with anticancer activity, targeting against pump resistance-related and non-pump resistance-related pathways[1].

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.

[2]. Lo YL, et al. Inhibit multidrug resistance and induce apoptosis by using glycocholic acid and epirubicin. *Eur J Pharm Sci.* 2008 Sep 2;35(1-2):52-67.

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

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