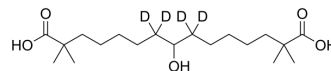


Bempedoic acid-d₄

Cat. No.:	HY-12357S2		
CAS No.:	2408131-70-2		
Molecular Formula:	C ₁₉ H ₃₂ D ₄ O ₅		
Molecular Weight:	348.51		
Target:	ATP Citrate Lyase; AMPK		
Pathway:	Metabolic Enzyme/Protease; Epigenetics; PI3K/Akt/mTOR		
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 : 50 mg/mL (143.47 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8694 mL	14.3468 mL	28.6936 mL
	5 mM	0.5739 mL	2.8694 mL	5.7387 mL
	10 mM	0.2869 mL	1.4347 mL	2.8694 mL

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

BIOLOGICAL ACTIVITY

Description

Bempedoic acid-d₄ is the deuterium labeled Bempedoic acid. Bempedoic acid (ETC-1002) is an ATP-citrate lyase (ACL) inhibitor. Bempedoic acid (ETC-1002) activates AMPK[1][2].

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^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pinkosky SL, et al. AMP-activated protein kinase and ATP-citrate lyase are two distinct molecular targets for ETC-1002, a novel small molecule regulator of lipid and carbohydrate metabolism. *J Lipid Res.* 2013 Jan;54(1):134-51.

[2]. Filippov S, et al. ETC-1002 regulates immune response, leukocyte homing, and adipose tissue inflammation via LKB1-dependent activation of macrophage AMPK. *J*

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

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