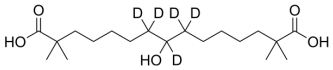
Bempedoic acid-d_5

Cat. No.:	HY-12357S
CAS No.:	2408131-71-3
Molecular Formula:	$C_{19}H_{31}D_5O_5$
Molecular Weight:	349.52
Target:	ATP Citrate Lyase; AMPK
Pathway:	Metabolic Enzyme/Protease; Epigenetics; PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bempedoic acid-d_5 is the deuterium labeled Bempedoic acid[1]. Bempedoic acid (ETC-1002) is an ATP-citrate lyase (ACL) inhibitor[1]. Bempedoic acid (ETC-1002) activates AMPK[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[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]. 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.

[3]. Filippov S, et al. ETC-1002 regulates immune response, leukocyte homing, and adipose tissue inflammation via LKB1-dependent activation of macrophage AMPK. J Lipid Res. 2013 Aug54(8):2095-108.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA