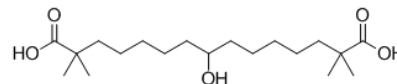


Product Name : Bempedoic acid
Cat. No. : PC-43001
CAS No. : 738606-46-7
Molecular Formula : C₁₉H₃₆O₅
Molecular Weight : 344.4861
Target : ATP Citrate Lyase (ACL)
Solubility : 10 mM in DMSO



Biological Activity

Bempedoic acid (ESP-55016; ETC-1002) is a small molecule regulator of lipid and carbohydrate metabolism, inhibits **ATP Citrate Lyase** (ACL, ACLY).

Bempedoic acid activates AMP-activated protein kinase in a Ca²⁺/calmodulin-dependent kinase β-independent and liver kinase β 1-dependent manner

Bempedoic acid targets ACC (acetyl-CoA carboxylase) with IC₅₀ of 29 μM without activating the AMPK pathway in vitro.

Bempedoic acid reduces circulating proatherogenic lipoproteins, hepatic lipids, and body weight in a hamster model of hyperlipidemia.

References

Pinkosky SL, et al. *J Lipid Res.* 2013 Jan;54(1):134-51.

Cramer CT, et al. *J Lipid Res.* 2004 Jul;45(7):1289-301.

Filippov S, et al. *J Lipid Res.* 2013 Aug;54(8):2095-108.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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