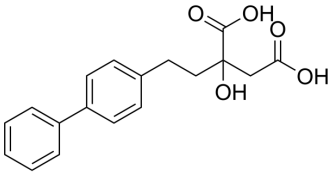
LBA-3

Cat. No.:	HY-158160
CAS No.:	2918263-09-7
Molecular Formula:	$C_{18}H_{18}O_5$
Molecular Weight:	314.33
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LBA-3 is a selective, orally active inhibitor for sodium-coupled citrate transporter SLC13A5, with an IC_{50} of 67 nM. LBA-3 decreases levels of triglyceride and total cholesterol in oleic and palmitic acid (OPA)-stimulated AML12 cells, PCN-stimulated primary mouse hepatocytes and in mouse models, without detectable toxicity. LBA-3 is blood-brain barrier permeable[1].
In Vivo	LBA-3 (50 mg/kg, po, single dose) exhibits a pharmacokinetic profil in Sprague Dawley rats, with peak plasma concentration C_{max} of 288 262.00 μg/L, AUC of 704 570.43 h/μg–1·L and an oral bioavailability of 48.67%[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang L, et al., Discovery of Highly Potent Solute Carrier 13 Member 5 (SLC13A5) Inhibitors for the Treatment of Hyperlipidemia. J Med Chem. 2024 Apr 25;67(8):6687-6704.

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