

McN3716

Chemical Properties

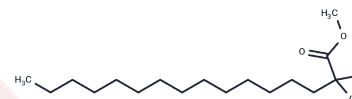
CAS No. : 69207-52-9

Formula: C₁₈H₃₄O₃

Molecular Weight: 298.46

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	McN3716 is a carnitine palmitoyltransferase I (CPT-1) inhibitor used for researching metabolic diseases.
Targets(IC50)	Mitochondrial Metabolism,CPT
In vivo	Significantly reducing the levels of all measured HETE and epoxytrienoic acids (EET), nonenzymatic auto-oxidative metabolites of ARA, by 23% to 44% and 32% to 50% compared with vehicle-injected rats, McN3716 (Methyl palmoxirate, MEP) achieves inhibition of brain mitochondrial β -oxidation. Notably, 15-HETE remains unaffected. McN3716 treatment leads to a significant 34% reduction in the level of 6-keto-PGF ₁ α , a byproduct of PGI ₂ (prostacyclin). Similarly, the brain level of hydroxyeicosapentaenoic acids, nonenzymatic auto-oxidative metabolites of EPA, is reduced by 35% to 76% upon McN3716 treatment relative to the vehicle[1].

Solubility Information

Solubility	DMSO: 2.99 mg/mL (10.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3505 mL	16.7527 mL	33.5053 mL
5 mM	0.6701 mL	3.3505 mL	6.7011 mL
10 mM	0.3351 mL	1.6753 mL	3.3505 mL
50 mM	0.067 mL	0.3351 mL	0.6701 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chen CT, et al. Inhibiting mitochondrial β -oxidation selectively reduces levels of nonenzymatic oxidative polyunsaturated fatty acid metabolites in the brain. *J Cereb Blood Flow Metab.* 2014 Mar;34(3):376-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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