PRODUCT INFORMATION



O-7460

Item No. 14009

CAS Registry No.: 1572051-31-0

Formal Name: 2-[(fluoromethylphosphinyl)oxy]-

1-[(1-methylethoxy)methyl]ethyl

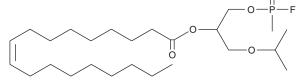
ester, 9Z-octadecenoic acid

MF: $C_{25}H_{48}FO_5P$ FW: 478.6 ≥95% **Purity:**

Supplied as: A solution in methyl acetate

Storage: -20°C Stability: ≥1 year

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Description

In humans, two forms of diacylglycerol lipase, DAGLα and DAGLβ, generate the endocannabinoid 2-arachidonoyl glycerol (2-AG; Item No. 62160) by attacking DAG at the sn-1 position. O-7460 is a selective inhibitor of 2-AG biosynthesis via DAGL α (IC₅₀ = 690 nM). It demonstrates much weaker inhibition towards human monoacylglycerol lipase and rat brain fatty acid amide hydrolase (IC $_{50}$ s > 10 μ M) and does not bind to CB_1 or CB_2 cannabinoid receptors (K_is > 10 μ M).¹ At 0-12 mg/kg, i.p. in mice, O-7460 was reported to dose-dependently inhibit high-fat diet intake and reduce body weight. 1

Reference

1. Bisogno, T., Mahadevan, A., Coccurello, R., et al. A novel fluorophosphonate inhibitor of the biosynthesis of the endocannabinoid 2-arachidonoylglycerol with potential anti-obesity effects. Br. J. Pharmacol. 169(4), 784-793 (2012).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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