

Product Data Sheet

Product Name: Clevidipine-d7

Cat. No.: GC47100

Chemical Properties

Cas. No. 2747918-66-5

SMILES O=C(C1=C(C)NC(C)=C(C1C2=C(Cl)C(Cl)=CC=C2)C(OCOC(C([2H])([2H])C([2H])([2H])C([2H])([2H])[2H])=O)=O)OC

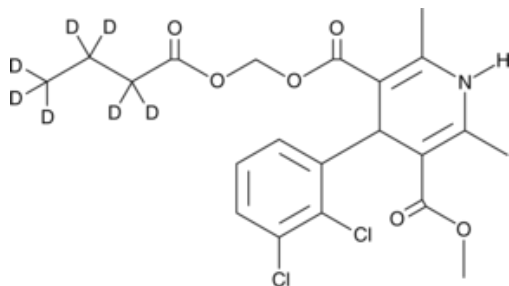
Formula C₂₁H₁₆Cl₂D₇NO₆ M.Wt 463.4

Solubility DMSO: Soluble, Methanol: Soluble Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Clevidipine-d7 is intended for use as an internal standard for the quantification of clevidipine by GC- or LC-MS. Clevidipine is an inhibitor of L-type calcium channels (IC₅₀s = 7.1 and 78.8 nM at -40 and -80 mV, respectively, in isolated guinea pig cardiomyocytes).¹ It preferentially inhibits L-type calcium channels in isolated rat portal vein over rat left ventricle (IC₅₀s = 427 and 20,417 nM, respectively).² Clevidipine decreases mean arterial pressure in anesthetized normotensive or spontaneously hypertensive rats with ED₃₀ values of 316 and 58 nmol/kg, respectively. Formulations containing clevidipine have been used in the treatment of hypertension.

1. Yi, X., Vivien, B., and Lynch, C., III Clevidipine blockade of L-type Ca²⁺ currents: Steady-state and

Caution: Product has not been fully validated for medical applications. For research use only.

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kinetic electrophysiological studies in guinea pig ventricular myocytesJ. Cardiovasc. Pharmacol.36(5)592-600(2000) 2.Norlander, M., Sjöquist, P.O., Ericsson, H., et al.Pharmacodynamic, pharmacokinetic and clinical effects of clevidipine, an ultrashort-acting calcium antagonist for rapid blood pressure controlCardiovasc. Drugs Ther.22(3)227-250(2004)

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