

Product Data Sheet

Product Name: Varenicline-d4

Cat. No.: GC48244

Chemical Properties

Cas. No. 2183239-01-0

SMILES [2H]C1([2H])NC([2H])([2H])C2C3=CC4=C(N=CC=N4)C=C3C1C2

Formula C₁₃H₉D₄N₃

M.Wt 215.3

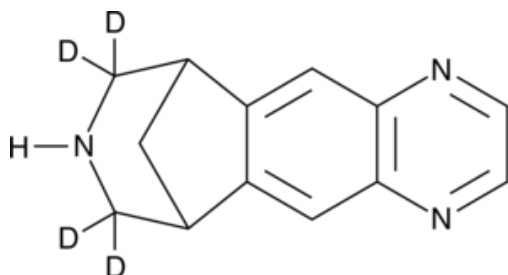
Solubility Water: 0.0877 mg/mL

Storage Store at -20°C

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

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

Structure



Background

Varenicline-d₄ is intended for use as an internal standard for the quantification of varenicline by GC- or LC-MS. Varenicline is a full agonist of α₇ subunit-containing neuronal nicotinic acetylcholine receptors (nAChRs; EC₅₀ = 18 μM) and a partial agonist of α₄β₂ subunit-containing nAChRs (EC₅₀ = 2.3 μM).¹ Formulations containing varenicline have been used as aids in smoking cessation.

1. Mihalak, K.B., Carroll, F.I., and Luetje, C.W. Varenicline is a partial agonist at α₄β₂ and a full agonist at α₇ neuronal nicotinic receptors. *Mol. Pharm.* 70(3)801-805(2006)

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

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