

Product Data Sheet

Product Name: Rimonabant-d10

Cat. No.: GC48054

Chemical Properties

Cas. No. 929221-88-5

SMILES CC1=C(C2=CC=C(C(Cl)C=C2)N(C3=CC=C(C(Cl)C=C3Cl)N=C1C(NN4C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C4([2H])([2H])=O

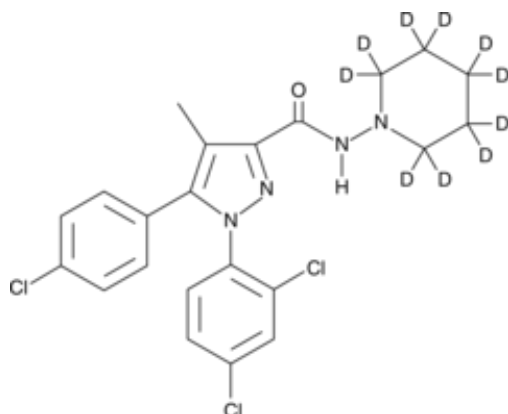
Formula C₂₂H₁₁Cl₃D₁₀N₄O M.Wt 473.8

Solubility Chloroform: soluble 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

Rimonabant-d₁₀ contains 10 deuterium atoms at the 2, 2', 3, 3', 4, 4', 5, 5', 6, and 6' positions. It is intended for use as an internal standard for the quantification of rimonabant by GC- or LC-MS. Rimonabant, also known as SR141716, was the first selective central cannabinoid (CB₁) receptor inverse agonist ($K_i = 1.8$ nM) to be developed as an appetite suppressant and anti-obesity drug.¹ It is widely used as a tool to investigate CB receptor properties and the mechanisms by which CB agonists exert their pharmacological effects.

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

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1. Rinaldi-Carmona, M., Barth, F., Héaulme, M., et al. SR141716A, a potent and selective antagonist of the brain cannabinoid receptor. *FEBS Letters* 350(2-3):240-244 (1994)

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