

Product Data Sheet

Product Name: Acoltremon-d 3

Cat. No.: GC80843

Chemical Properties

Cas. No.

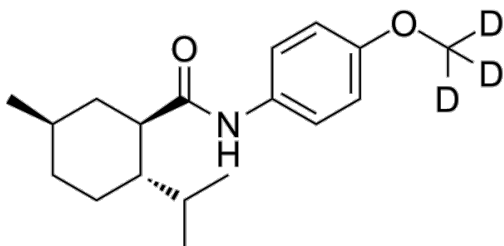
Formula $C_{18}H_{24}D_3NO_2$ M.Wt 292.43

Solubility DMSO: 16.67 mg/mL (57.01 mM; Need ultrasonic) 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



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

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Background

Acoltremon -d 3 (WS-12-d 3) is the deuterium labeled Acoltremon. Acoltremon is a potent and selective TRPM8 agonist, the menthol derivative, as a cooling agent. Acoltremon shows analgesic effect, and can be used in chronic neuropathic pain research [1] [2].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:

- [1]. Beck B, et al. Prospects for prostate cancer imaging and therapy using high-affinity TRPM8 activators. Cell Calcium. 2007 Mar;41(3):285-94.
- [2]. Ma S, et al. Menthol derivative WS-12 selectively activates transient receptor potential melastatin-8 (TRPM8) ion channels. Pak J Pharm Sci. 2008 Oct;21(4):370-8.

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