PRODUCT INFORMATION

(–)-11-hydroxy-Δ^8-THC-d_3

Item No. 37040

Formal Name: (6aR,10aR)-9-(hydroxymethyl)-6,6-dimethyl-3-(pentyl-5,5,5-d_3)-6a,7,10,10a-tetrahydro-6H-benzo[c]chromen-1-ol

Synonyms: (–)-*trans*-Δ^8-THC-d_3, (–)-11-hydroxy-Δ^8-Tetrahydrocannabinol-d_3, 7-hydroxy-Δ^6-THC-d_3,

MF: $C_{21}H_{27}D_3O_3$

FW: 333.5

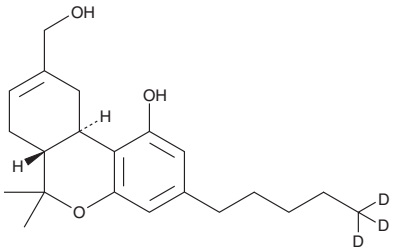
Chemical Purity: ≥98% ((–)-11-hydroxy-Δ^8-THC)

Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤1% d_0

Supplied as: A crystalline solid

Storage: 20°C

Stability: ≥4 years



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

Description

(–)-11-hydroxy-Δ^8-THC-d_3 (Item No. 37040) is intended for use as an internal standard for the quantification of (–)-11-hydroxy-Δ^8-THC (Item No. 29469) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

(–)-11-hydroxy-Δ^8-THC is categorized as a phytocannabinoid metabolite.[1,2] (–)-11-hydroxy-Δ^8-THC is a metabolite of Δ^8-THC (Item Nos. ISO60158 | 14042). It has analgesic activity in mice. (–)-11-hydroxy-Δ^8-THC-d_3 is regulated as a Schedule I compound in the United States. This product is intended for research and forensic applications.

References

1. Watanabe, K., Yamamoto, I., Oguri, K., *et al*. Comparison in mice of pharmacological effects of Δ^8-tetrahydrocannabinol and its metabolites oxidized at 11-position. *Eur. J. Pharm.* **63(1)**, 1-6 (1980).
2. Rhee, M.H., Vogel, Z., Barg, J., *et al*. Cannabinol derivatives: Binding to cannabinoid receptors and inhibition of adenylylcyclase. *J. Med. Chem.* **40(20)**, 3228-3233 (1997).

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

SAFETY DATA
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.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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