

Product Data Sheet

Product Name: Mitragynine-d3

Cat. No.: GC47686

Chemical Properties

Cas. No. 2135473-75-3

SMILES O=C(OC)/C([C@@H]1[C@H](CC)CN2CCC3=C(NC4=C3C(OC([2H])([2H])[2H])=CC=C4)[C@]2([H])C1)=C/OC

Formula C₂₃H₂₇D₃N₂O₄

M.Wt 401.5

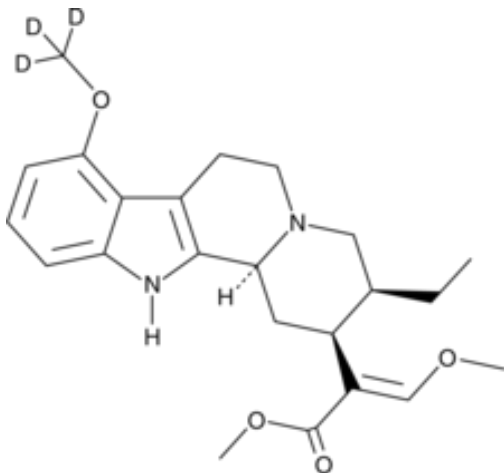
Solubility

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

Mitragynine-d₃ is an analytical reference material intended for use as an internal standard for the quantification of mitragynine by GC- or LC-MS. Mitragynine is categorized as an opioid.^{1,2} Mitragynine and its derivatives have been identified in products sold as incense.³ This product is intended for research and forensic applications.

1. Matsumoto, K., Mizowaki, M., Suchitra, T., et al. Central antinociceptive effects of mitragynine in

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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mice: Contribution of descending noradrenergic and serotonergic systemsEur. J. Pharmacol.317(1)75-81(1996) 2.Takayama, H., Ishikawa, H., Kurihara, M., et al.Studies on the synthesis and opioid agonistic activities of mitragynine-related indole alkaloids: Discovery of opioid agonists structurally different from other opioid ligandsJ. Med. Chem.45(9)1949-1956(2002) 3.Kikura-Hanajiri, R., Uchiyama, N., and Goda, Y.Survey of current trends in the abuse of psychotropic substances and plants in JapanLeg. Med. (Tokyo)13(3)109-115(2011)

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