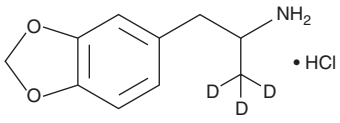
PRODUCT INFORMATION

(±)-MDA-d_3 (hydrochloride)

Item No. 15820

CAS Registry No.:	2747917-68-4
Formal Name:	α-methyl-d_3-1,3-benzodioxole-5-ethanamine, monohydrochloride
Synonyms:	3,4-MDA-d_3, 3,4-Methylenedioxyamphetamine-d_3
MF:	$C_{10}H_{10}D_3NO_2$ • HCl
FW:	218.7
Chemical Purity:	≥98% ((±)-MDA)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_3); ≤1% d_0
UV/Vis.:	λ_{max}: 237, 288 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥5 years



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

Description

(±)-MDA-d_3 (hydrochloride) (Item No. 15820) is intended for use as an internal standard for the quantification of (±)-MDA (Item No. ISO60189 | 11554) 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).

(±)-MDA-d_3 (hydrochloride) (Item No. 15820) is an analytical reference standard intended for use as an internal standard for the quantification of (±)-MDA (Item Nos. ISO60189 | 11554) by GC- or LC-MS. (±)-MDA is categorized as an amphetamine.[1,2] It induces the head-twitch response (HTR) in mice, indicating hallucinogenic potential.[2] (±)-MDA has been found in seized ecstasy tablets.[3] (±)-MDA-d_3 is regulated as a Schedule I compound in the United States. This product is intended for research and forensic applications.

References

1. de La Torre, R., Farré, M., Ortuño, J., *et al.* Non-linear pharmacokinetics of MDMA ('ecstasy') in humans. *Br. J. Clin. Pharmacol.* **49(2),** 104-109 (2000).
2. Halberstadt, A.L., Chatha, M., Klein, A.K., *et al.* Correlation between the potency of hallucinogens in the mouse head-twitch response assay and their behavioral and subjective effects in other species. *Neuropharmacology* **167,** 107933 (2020).
3. Cheng, J.Y.K., Chan, M.F., Chan, T.W., *et al.* Impurity profiling of ecstasy tablets seized in Hong Kong by gas chromatography–mass spectrometry. *Forensic Sci. Int.* **162(1-3),** 87-94 (2006).

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