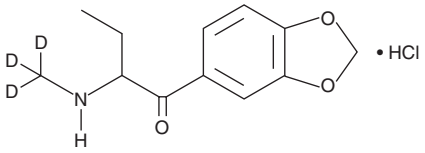
PRODUCT INFORMATION

Butylone-d_3 (hydrochloride)

Item No. 9001826

CAS Registry No.: 1231710-63-6
Formal Name: 1-(1,3-benzodioxol-5-yl)-2-(methyl-d_3-amino)-1-butanone, monohydrochloride
Synonyms: bk-MBDB-d_3, β-keto MBDB-d_3
MF: $C_{12}H_{12}D_3NO_3$ • HCl
FW: 260.7
Chemical Purity: ≥98% Butylone (hydrochloride)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as: A neat solid
Storage: -20°C
Stability: ≥6 years



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

Description

Butylone-d_3 (hydrochloride) (Item No. 9001826) is intended for use as an internal standard for the quantification of butylone (hydrochloride) (Item No. 10393) 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).

Butylone is categorized as a cathinone.[1] It is a metabolite of bk-DMBDB and has been detected in products sold as bath salts.[2,3] Butylone-d_3 is regulated as a Schedule I compound in the United States. This product is intended for research and forensic applications.

This product is qualified as a Reference Material that has been manufactured and tested to ISO/IEC 17025 and ISO 17034 international standards.

References

1. Prosser, J.M. and Nelson, L.S. The toxicology of bath salts: A review of synthetic cathinones. *J. Med. Toxicol.* **8(1)**, 33-42 (2012).
2. Krotulski, A.J., Mohr, A.L.A., Papsun, D.M., *et al.* Dibutylone (bk-DMBDB): Intoxications, quantitative confirmations and metabolism in authentic biological specimens. *J. Anal. Toxicol.* **42(7)**, 437-445 (2018).
3. Rosenbaum, C.D., Carreiro, S.P., and Babu, K.M. Here today, gone tomorrow...and back again? A review of herbal marijuana alternatives (K2, Spice), synthetic cathinones (bath salts), kratom, *Salvia divinorum*, methoxetamine, and piperazines. *J. Med. Toxicol.* **8(1)**, 15-32 (2012).

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