

[³H] 3, 4 - Methylenedioxyamphetamine の合成

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Synthesis of Racemic, S(+)- and R(-) - N - [methyl-³H] 3, 4 - Methylenedioxyamphetamine.

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ABSTRACT The synthesis of 3, 4 - methylenedioxyamphetamine (MDMA), a serotonergic neurotoxin, labeled with tritium is described. Labeling was accomplished by N - alkylation of the free base of the corresponding desmethyl compound using [³H]methyl iodide. The compound was purified by preparative HPLC. The radiochemical yield was about 60% based on [³H]methyl iodide. The radiochemical purity was more than 95% from HPLC and TLC. Furthermore, S(+)- and R(-) - [³H]MDMA were completely separated by analytical HPLC with chiral column.

抄録 3, 4 - Methylenedioxyamphetamine (MDMA) のレトリチウム標識を行った。標識は [³H] ヨウ化メチルを用いて行い, HPLC を用いて分離精製した。放射化学的収率は約60%であった。放射化学的純度は, HPLC および TLC で求めたところ, 95%以上であった。さらに, 光学異性体分離用カラムを用いて, [³H] MDMA の S(+) 体および R(-) 体を完全に分割した。