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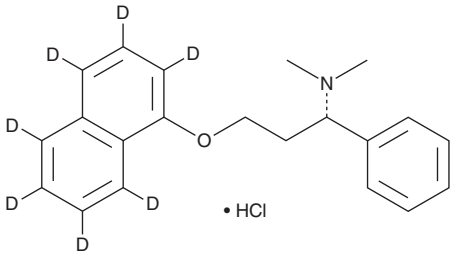
PRODUCT INFORMATION

Dapoxetine-d_7 (hydrochloride)

Item No. 40762

CAS Registry No.: 2699607-47-9
Formal Name: N,N-dimethyl-α3-[2-(1-naphthalenyloxy)ethyl-d_7]-benzenemethanamine, monohydrochloride
Synonym: (S)-(+)-Dapoxetine-d_7
MF: $C_{21}H_{16}D_7NO \bullet HCl$
FW: 348.9
Chemical Purity: ≥95% (Dapoxetine)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_7); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Dapoxetine-d_7 (hydrochloride) is intended for use as an internal standard for the quantification of dapoxetine 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).

Dapoxetine-d_7 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the dapoxetine-d_7 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Dapoxetine-d_7 (hydrochloride) is soluble in ethanol, methanol, and DMSO.

Description

Dapoxetine is a selective serotonin (5-HT) reuptake inhibitor (SSRI; IC_{50} = 10 nM in isolated rat cerebral cortex membranes).[1] It selectively inhibits 5-HT uptake over norepinephrine or dopamine uptake in cells expressing the human transporters (IC_{50}s = 1.2, 202, and 1,720 nM, respectively).[2] Dapoxetine (1 and 80 µg/animal) increases the amplitude of the pudendal motoneuron reflex discharges in a rat model of the ejaculatory expulsion reflex induced by electrical stimulation of the dorsal penis nerves.[3] It decreases infarct volume and improves motor performance in a rat model of ischemic stroke induced by bilateral common carotid artery occlusion when administered at doses of 30 or 60 mg/kg.[4] Dapoxetine (5 mg/kg) decreases prostate weight and levels of Tnf-α, inducible nitric oxide synthase (iNos), and Cox-2 in a rat model of testosterone propionate-induced benign prostatic hyperplasia (BPH).[5] Formulations containing dapoxetine have been used in the treatment of premature ejaculation.

References

1. Robertson, D.W., Wong, D.T., and Thompson, D.C. *APBI Holdings LLC*. **US5135947A** (1990).
2. Gengo, P.J., François, G., McKenna, K.E., *et al. J. Urol.* **173(4)**, 239 (2005).
3. Clément, P., Bernabé, J., Gengo, P., *et al. Eur. Urol.* **51(3)**, 825-832 (2007).
4. Abdel-Hameed, S.S., El-Daly, M., Ahmed, A.-S.F., *et al. Naunyn Schmiedebergs Arch. Pharmacol.* **397(1)**, 253-266 (2024).
5. Sayed, R.H., Saad, M.A., and El-Sahar, A.E. *Toxicol. Appl. Pharmacol.* **311**, 52-60 (2016).

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