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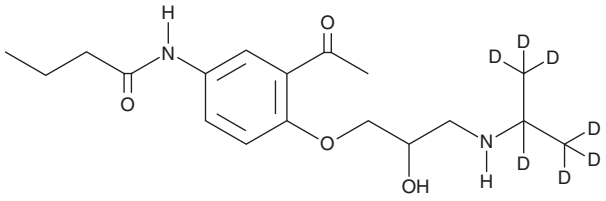
PRODUCT INFORMATION

Acebutolol-d_7

Item No. 35557

CAS Registry No.: 2701782-36-5
Formal Name: N-[3-acetyl-4-[2-hydroxy-3-[(1-methylethyl-d_7)amino]propoxy]phenyl]-butanamide
MF: $C_{18}H_{21}D_7N_2O_4$
FW: 343.5
Chemical Purity: ≥98% (Acebutolol)
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

Acebutolol-d_7 is intended for use as an internal standard for the quantification of acebutolol (Item No. 23393) 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).

Acebutolol-d_7 is supplied as a solid. A stock solution may be made by dissolving the acebutolol-d_7 in the solvent of choice, which should be purged with an inert gas. Acebutolol-d_7 is slightly soluble in chloroform and methanol.

Description

Acebutolol is an antagonist of β_1-adrenergic receptors (β_1-ARs; K_i = 125 nM).[1] It is selective for β_1- over β_2-ARs (K_i = 7,070 nM). *In vivo*, acebutolol decreases isoprenaline-induced tachycardia and diastolic hypotension in cats (ED_{50} = 0.09 mg/kg for both).[2] Acebutolol (12.5, 25, and 50 mg/kg) inhibits ouabain-induced arrhythmias in rabbits, as well as protects against chloroform-induced ventricular fibrillation in mice (ED_{50} = 0.067 mg/kg).[3] Formulations containing acebutolol have been used in the treatment of angina and irregular heartbeat.

References

1. Tsuchihashi, H., Nakashima, Y., Kinami, J., *et al.* Characteristics of ^{125}I-iodocyanopindolol binding to β-adrenergic and serotonin-1B receptors of rat brain: Selectivity of β-adrenergic agents. *Jpn. J. Pharmacol.* **52(2)**, 195-200 (1990).
2. Basil, B., Jordan, R., Loveless, A.H., *et al.* β-Adrenoceptor blocking properties and cardioselectivity of M & B 17,803A. *Br. J. Pharmacol.* **48(2)**, 198-211 (1973).
3. Basil, B., Jordan, R., Loveless, A.H., *et al.* A comparison of the experimental anti-arrhythmic properties of acebutolol (M and B 17,803), propranolol and practolol. *Br. J. Pharmacol.* **50(3)**, 323-333 (1974).

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