SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

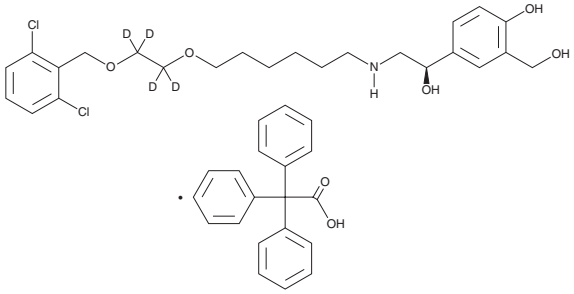
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Vilanterol-d_4 (triphenylacetate)

Item No. 30813

CAS Registry No.: 2021249-10-3
Formal Name: α^1R-[[[6-[2-[(2,6-dichlorophenyl) methoxy]ethoxy-d_4]hexyl] amino]methyl]-4-hydroxy-1,3-benzenedimethanol, triphenylacetate
MF: $C_{24}H_{29}Cl_2D_4NO_5 \bullet C_{20}H_{16}O_2$
FW: 778.8
Chemical Purity: ≥98% (Vilanterol)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_4); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Vilanterol-d_4 (triphenylacetate) is intended for use as an internal standard for the quantification of vilanterol (Item No. 20702) 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).

Vilanterol-d_4 (triphenylacetate) is supplied as a solid. A stock solution may be made by dissolving the vilanterol-d_4 (triphenylacetate) in the solvent of choice, which should be purged with an inert gas. Vilanterol-d_4 (triphenylacetate) is soluble in methanol, DMSO, and dimethyl formamide.

Description

Vilanterol is an ultra-long acting β_2-adrenoceptor agonist (ultra-LABA) that has 1,000-fold selectivity for β_2-over other β-receptors (EC_{50}s = 398, 0.39, and 794 nM for β_1, β_2, and β_3, respectively).[1,2] In addition to its potency and selectivity, vilanterol is characterized by rapid onset of activity and prolonged duration of action.[1,3]

References

1. Cazzola, M., Calzetta, L., and Matera, M.G. β_2-adrenoceptor agonists: Current and future direction. *Br. J. Pharmacol.* **163(1)**, 4-17 (2011).
2. Mach, R.H., Nader, M.A., Ehrenkaufer, R.L., *et al.* Comparison of two fluorine-18 labeled benzamide derivatives that bind reversibly to dopamine D_2 receptors: In vitro binding studies and positron emission tomography. *Synapse* **24(4)**, 322-333 (1996).
3. Procopiou, P.A., Barrett, V.J., Bevan, N.J., *et al.* Synthesis and structure-activity relationships of long-acting beta2 adrenergic receptor agonists incorporating metabolic inactivation: An antedrug approach. *J. Med. Chem.* **53(11)**, 4522-4530 (2010).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM