



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

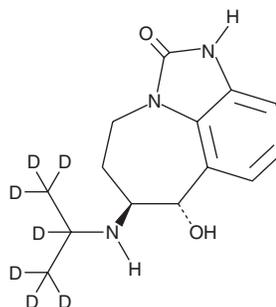
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Zilpaterol-d₇ Item No. 22903

CAS Registry No.: 1217818-36-4
Formal Name: (6S,7S)-6-hydroxy-7-((propan-2-yl-d₇)amino)-6,7,8,9-tetrahydro-2,9a-diazabenz[cd]azulen-1(2H)-one
MF: C₁₄H₁₂D₇N₃O₂
FW: 268.4
Chemical Purity: ≥95% (Zilpaterol)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₇); ≤1% d₀
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

Zilpaterol-d₇ is intended for use as an internal standard for the quantification of zilpaterol (Item No. 16484) 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).

Zilpaterol-d₇ is supplied as a solid. A stock solution may be made by dissolving the zilpaterol-d₇ in the solvent of choice. Zilpaterol-d₇ is slightly soluble in methanol and DMSO.

Description

Zilpaterol is a β-adrenergic receptor agonist that putatively, through activation of protein kinase A, increases protein synthesis in skeletal muscle fibers as well as reduces lipogenesis and increases lipolysis in adipose tissues.^{1,2} Formulations containing zilpaterol have been used to increase lean body weight and improve feed efficiency in commercial beef cattle.³

References

1. Avendaño-Reyes, L., Torres-Rodríguez, V., Meraz-Murullo, F.J., *et al.* Effects of two β-adrenergic agonists on finishing performance, carcass characteristics, and meat quality of feedlot steers. *J. Anim. Sci.* **84**(12), 3259-3265 (2006).
2. Miller, E.K., Chung, K.Y., Hutcheson, J.P., *et al.* Zilpaterol hydrochloride alters abundance of β-adrenergic receptors in bovine muscle cells but has little effect on de novo fatty acid biosynthesis in bovine subcutaneous adipose tissue explants. *J. Anim. Sci.* **90**(4), 1317-1327 (2012).
3. Delmore, R.J., Hodgen, J.M., and Johnson, B.J. Perspectives on the application of zilpaterol hydrochloride in the United States beef industry. *J. Anim. Sci.* **88**(8), 2825-2828 (2010).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 09/18/2017

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