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Produktinformation

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- Diagnostik & molekulare Diagnostik
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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

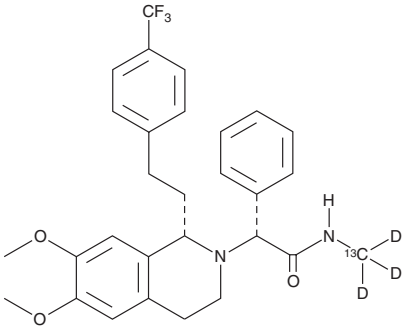
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Almorexant-^{13}C-d$_3$

Item No. 29099

Formal Name:	(R)-2-((S)-6,7-dimethoxy-1-(4-(trifluoromethyl)phenethyl)-3,4-dihydroisoquinolin-2(1H)-yl)-N-(methyl-^{13}C-d$_3$)-2-phenylacetamide
Synonym:	ACT 078573-^{13}C-d$_3$
MF:	$C_{28}[^{13}C]H_{28}D_3F_3N_2O_3$
FW:	516.6
Chemical Purity:	≥98% (Almorexant)
Deuterium Incorporation:	≥98% deuterated forms (d$_1$-d$_3$); ≤2% 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

Almorexant-^{13}C-d$_3$ is intended for use as an internal standard for the quantification of almorexant (Item No. 13638) 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).

Almorexant-^{13}C-d$_3$ is supplied as a solid. A stock solution may be made by dissolving the almorexant-^{13}C-d$_3$ in the solvent of choice, which should be purged with an inert gas. Almorexant-^{13}C-d$_3$ is soluble in organic solvents such as methanol, DMSO, and dimethyl formamide.

Description

Almorexant is a dual antagonist of orexin 1 receptor (OX1R) and OX2R (K_is = 4.7 and 0.9 nM, respectively, in a radioligand binding assay).[1] It decreases the latency to persistent non-rapid eye movement (NREM) sleep and increases the duration of NREM and REM sleep in male rats when administered at a dose of 100 mg/kg.[2] Almorexant (300 mg/kg) does not impair spatial learning and memory in the Morris water maze and does not reverse spatial memory impairments induced by scopolamine in rats.[3]

References

1. Malherbe, P., Borroni, E., Pinard, E., *et al*. Biochemical and electrophysiological characterization of almorexant, a dual orexin 1 receptor (OX1)/orexin 2 receptor (OX2) antagonist: Comparison with selective OX1 and OX2 antagonists. *Molecular Pharmacology* **76(3)**, 618-631 (2015).
2. Brisbare-Roch, C., Dingemanse, J., Koberstein, R., *et al*. Promotion of sleep by targeting the orexin system in rats, dogs and humans. *Nat. Med.* **13(2)**, 150-155 (2007).
3. Dietrich, H. and Jenck, F. Intact learning and memory in rats following treatment with the dual orexin receptor antagonist almorexant. *Psychopharmacology (Berl.)* **212(2)**, 145-154 (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