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Produktinformation

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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

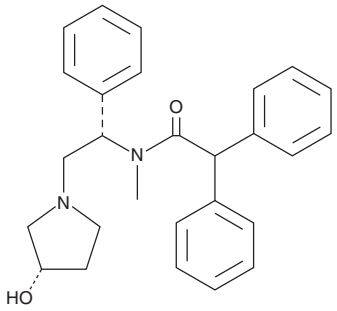
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Asimadoline

Item No. 26411

CAS Registry No.: 153205-46-0
Formal Name: N-[(1S)-2-[(3S)-3-hydroxy-1-pyrrolidinyl]-1-phenylethyl]-N-methyl-α-phenyl-benzeneacetamide
Synonym: EMD 61753
MF: $C_{27}H_{30}N_2O_2$
FW: 414.5
Purity: ≥98%
Supplied as: A crystalline 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

Asimadoline is supplied as a crystalline solid. A stock solution may be made by dissolving the asimadoline in the solvent of choice. Asimadoline is soluble in the organic solvent DMSO, which should be purged with an inert gas, at a concentration of approximately 103 mg/ml.

Description

Asimadoline is a potent κ-opioid receptor (KOR) agonist (IC_{50}s = 5.6 and 1.2 nM for guinea pig and human receptors, respectively).[1] It is 501- and 498-fold selective for κ-opioid over μ- and δ-opioid receptors, respectively. Asimadoline is spasmolytic in isolated rat duodenum (IC_{50} = 4.2 μM) and inhibits spontaneous contractions of isolated rat uterus (IC_{50} = 12.7 μM). *In vivo*, asimadoline reduces joint damage in a rat model of arthritis induced by complete Freund's adjuvant (CFA). Asimadoline (25 mg/kg) also reduces the abdominal withdrawal reflex in a model of visceral pain induced by colonic distension in wild-type, but not *KOR*$^{-/-}$, mice.[2]

References

1. Camilleri, M. Asimadoline, a κ-opioid agonist, and visceral sensation. *Neurogastroenterol. Motil.* **20(9),** 971-979 (2008).
2. Larsson, M.H., Bayati, A., Lindström, E., *et al.* Involvement of kappa-opioid receptors in visceral nociception in mice. *Neurogastroenterol. Motil.* **20(10)**, 1157-1164 (2008).

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