



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) 

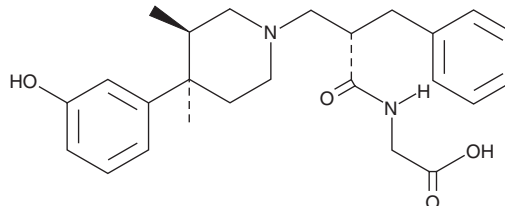
PRODUCT INFORMATION



Alvimopan

Item No. 23902

CAS Registry No.: 156053-89-3
Formal Name: N-[(2S)-2-[[[(3R,4R)-4-(3-hydroxyphenyl)-3,4-dimethyl-1-piperidinyl]methyl]-1-oxo-3-phenylpropyl]-glycine
Synonyms: ADL 8-2698, LY246736
MF: C₂₅H₃₂N₂O₄
FW: 424.5
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

Alvimopan is supplied as a crystalline solid. A stock solution may be made by dissolving the alvimopan in the solvent of choice. Alvimopan is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of alvimopan in these solvents is approximately 20 and 10 mg/ml, respectively.

Alvimopan is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, alvimopan should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Alvimopan has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Alvimopan is a μ -opioid receptor antagonist ($K_i = 0.47$ nM).¹ It is selective over the κ - and δ -opioid receptors ($K_{iS} = 100$ nM and 12 nM, respectively). Alvimopan inhibits μ -opioid receptor-mediated GTP binding to CHO cell membranes with an IC_{50} value of 1.7 nM. It inhibits morphine-induced slowing of colorectal transit in mice with an ED_{50} value of 0.41 mg/kg.² Alvimopan (0.3 and 1 mg/kg, p.o.) reduces inhibition of gastrointestinal (GI) transit induced by morphine, but not apraclonidine (Item No. 23904), in rats. Formulations containing alvimopan have been used in the treatment of opioid-induced bowel dysfunction.

References

1. Le Bourdonnec, B., Barker, W.M., Belanger, S., et al. Novel *trans*-3,4-dimethyl-4-(3-hydroxyphenyl) piperidines as μ opioid receptor antagonists with improved opioid receptor selectivity profiles. *Bioorganic & Medicinal Chemistry Letters* **18(6)**, 2006-2012 (2008).
2. Greenwood-Van Meerveld, B., Gardner, C.J., Little, P.J., et al. Preclinical studies of opioids and opioid antagonists on gastrointestinal function. *Neurogastroenterol. Motil.* **16(Suppl. 2)**, 46-53 (2004).

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, 04/01/2021

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