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

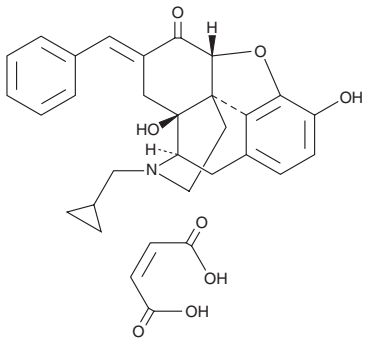
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

BNTX (maleate)

Item No. 39829

CAS Registry No.:	864461-31-4
Formal Name:	(5α,7E)-17-(cyclopropylmethyl)-4,5-epoxy-3,14-dihydroxy-7-(phenylmethylene)-morphinan-6-one, 2Z-butenedioate
Synonym:	7-Benzylidenenaltrexone
MF:	$C_{27}H_{27}NO_4 \bullet C_4H_4O_4$
FW:	545.6
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

BNTX (maleate) is supplied as a solid. A stock solution may be made by dissolving the BNTX (maleate) in the solvent of choice, which should be purged with an inert gas. BNTX (maleate) is soluble in methanol.

Description

BNTX is a δ_1-opioid receptor antagonist (K_i = 0.1 nM).[1] It is selective for the δ_1-opioid receptor over the δ_2-, μ-, and κ-opioid receptors (K_is = 10.8, 13.3, and 58.6 nM, respectively). BNTX (1 and 10 μM) decreases proliferation of primary mouse splenic B cells and the production of IL-2 and IL-4 by primary mouse splenic T lymphocytes.[2] It has antinociceptive activity in the tail-flick test in mice (ED_{50} = 46.4 pmol/animal) and decreases the antinociceptive activity of the δ_1-opioid receptor agonist DPDPE (Item No. 23184) when administered at a dose of 6.3 pmol/animal.[1] BNTX (0.3-3 mg/kg) decreases the number of coughs induced by the terpene alkaloid capsaicin (Item No. 92350) in mice.[3] It also reduces the number of parasitized red blood cells in a mouse model of chloroquine-resistant *P. chabaudi* infection when administered at a dose of 10 mg/kg.[4]

References

1. Portoghese, P.S., Sultana, M., Nagase, H., *et al.* A highly selective δ_1-opioid receptor antagonist: 7-benzylidenenaltrexone. *Eur. J. Pharmacol.* **218(1)**, 195-196 (1992).
2. House, R.V., Thomas, P.T., Kozak, J.T., *et al.* Suppression of immune function by non-peptidic delta opioid receptor antagonists. *Neurosci. Lett.* **198(2)**, 119-122 (1995).
3. Kamei, J., Iwamoto, Y., Suzuki, T., *et al.* Involvement of δ_1-opioid receptor antagonism in the antitussive effect of δ-opioid receptor antagonists *Eur. J. Pharmacol.* **251(2-3)**, 291-194 (1994).
4. Miyata, Y., Fujii, H., Osa, Y., *et al.* Opioid δ_1 receptor antagonist 7-benzylidenenaltrexone as an effective resistance reverser for chloroquine-resistant *Plasmodium chabaudi*. *Bioorg. Med. Chem. Lett.* **21(16)**, 4710-4712 (2011).

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