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

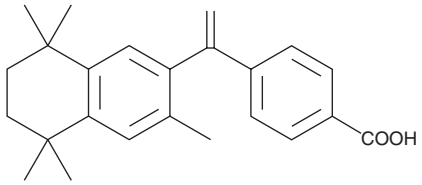
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Bexarotene

Item No. 11571

CAS Registry No.:	153559-49-0
Formal Name:	4-[1-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)ethenyl]-benzoic acid
Synonyms:	LG 100069, LGD 1069, Ro 26-4455, SR 11247
MF:	$C_{24}H_{28}O_2$
FW:	348.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 256 nm
Supplied as:	A crystalline 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

Bexarotene is supplied as a crystalline solid. A stock solution may be made by dissolving the bexarotene in the solvent of choice, which should be purged with an inert gas. Bexarotene is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of bexarotene in these solvents is approximately 0.5, 10, and 20 mg/ml, respectively.

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

Description

Bexarotene is an agonist of retinoid X receptors (RXRs; EC_{50}s = 28, 25, and 20 nM for RXRα, RXRβ, and RXRγ, respectively, in reporter assays).[1] It is selective for RXRs over retinoic acid receptors (RARs; EC_{50}s = >10 µM for RARα, RARβ, and RARγ). Bexarotene (10 µM) induces apoptosis in MJ, HuT 78, and HH cutaneous T cell lymphoma (CTCL) cells, as well as inhibits lung metastasis and angiogenesis in A549 and MDA-MB-231 mouse xenograft models when administered at a dose of 100 mg/kg per day.[2,3] It reduces increased brain interstitial fluid levels of amyloid-β (1-40) (Aβ40) and Aβ42 in the APP/PS1 transgenic mouse model of Alzheimer's disease.[4] It also reduces viral load in the culture supernatant of Vero E6 cells infected with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2; EC_{90} = 9.4 µM) and inhibits SARS-CoV-2 replication in a plaque reduction assay (EC_{50} = 2.01 µM).[5] Formulations containing bexarotene have been used in the treatment of CTCL.

References

1. Boehm, M.F., Zhang, L., Zhi, L., *et al. J. Med. Chem.* **38(16)**, 3146-3155 (1995).
2. Zhang, C., Hazarika, P., Ni, X., *et al. Clin. Cancer Res.* **8(5)**, 1234-1240 (2002).
3. Yen, W.-C., Prudente, R.Y., Corpuz, M.R., *et al. Br. J. Cancer* **94(5)**, 654-660 (2006).
4. Cramer, P.E., Cirrito, J.R., Wesson, D.W., *et al. Science* **335(6057)**, 1503-1506 (2012).
5. Yuan, S., Chan, J.F.W., Chik, K.K.H., *et al. Pharmacol. Res.* **159**, 104960 (2020).

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