



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) 

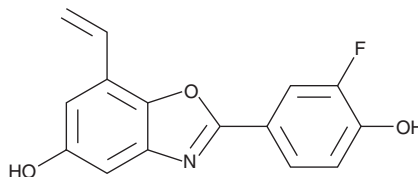
PRODUCT INFORMATION



ERB 041

Item No. 28737

CAS Registry No.: 524684-52-4
Formal Name: 7-ethenyl-2-(3-fluoro-4-hydroxyphenyl)-5-benzoxazolol
MF: C₁₅H₁₀FNO₃
FW: 271.2
Purity: ≥95%
UV/Vis.: λ_{max}: 216, 247, 309, 338 nm
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

ERB 041 is supplied as a crystalline solid. A stock solution may be made by dissolving the ERB 041 in the solvent of choice, which should be purged with an inert gas. ERB 041 is soluble in the organic solvent DMSO at a concentration of approximately 25 mg/ml.

Description

ERB 041 is an estrogen receptor β (ER β) agonist (IC₅₀s = 5.4, 3.1, and 3.7 nM for the human, rat, and mouse receptors, respectively).¹ It is selective for ER β over ER α (IC₅₀s = 1,200, 620, and 750 nM for human, rat, and mouse ER α , respectively). ERB 041 induces *IGFBP4* mRNA expression in Saos-2 cells expressing human ER β (EC₅₀ = 20 nM). *In vivo*, ERB 041 (0.1 and 0.3 mg/kg) inhibits chronic diarrhea and reduces colonic ulceration, inflammation, and fibrosis in the *HLA-B27* transgenic rat model of inflammatory bowel disease. It reduces joint swelling in a rat model of adjuvant-induced arthritis when administered at a dose of 1 mg/kg. ERB 041 (10 mg/kg) also reduces lesion formation in a mouse model of endometriosis.²

References

- Harris, H.A., Albert, L.M., Leathurby, Y., *et al.* Evaluation of an estrogen receptor- β agonist in animal models of human disease. *Endocrinology* **144**(10), 4241-4249 (2003).
- Harris, H.A., Bruner-Tran, K.L., Zhang, X., *et al.* A selective estrogen receptor- β agonist causes lesion regression in an experimentally induced model of endometriosis. *Hum. Reprod.* **20**(4), 936-941 (2005).

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, 11/25/2019

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