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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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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

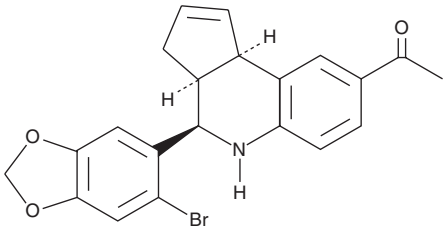
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

G-1

Item No. 10008933

CAS Registry No.:	881639-98-1
Formal Name:	*rel*-1-[4-(6-bromo-1,3-benzodioxol-5-yl)-3aR,4S,5,9bS-tetrahydro-3H-cyclopenta[c]quinolin-8-yl]-ethanone
MF:	$C_{21}H_{18}BrNO_3$
FW:	412.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 210, 242, 329 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

G-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the G-1 in the solvent of choice, which should be purged with an inert gas. G-1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of G-1 in these solvents is approximately 1, 20, and 30 mg/ml, respectively.

G-1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, G-1 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. G-1 has a solubility of approximately 0.15 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

GPR30 is a transmembrane G protein-coupled receptor (GPCR) localized to endoplasmic reticulum (ER) that binds estradiol with high affinity, activating multiple intracellular signaling pathways.[1] G-1 is a nonsteroidal, high-affinity, selective agonist of GPR30 that binds with a K_i value of 11 nM. Competitive binding studies in estrogen receptor α- (ERα-) and ERβ-expressing cells yielded K_i values for estradiol of 0.30 and 0.38 nM, respectively, with no substantial binding of G-1 at 1 µM.[2] The discovery of G-1, a compound that does not bind classical ERs, should facilitate further physiological experiments to define the role of GPR30 *in vivo*.

References

1. Revandar, C.M., Cimino, D.F., Sklar, L.A., *et al*. A transmembrane intracellular estrogen receptor mediates rapid cell signaling. *Science* **307**, 1625-1630 (2005).
2. Bologa, C.G., Revankar, C.M., Young, S.M., *et al*. Virtual and biomolecular screening converge on a selective agonist for GPR30. *Nat. Chem. Biol.* **2(4)**, 207-212 (2006).

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