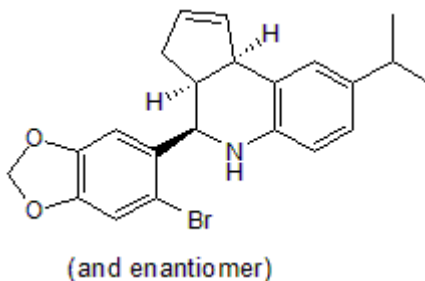


Product Name: G-36 **Catalog No.:** 4759 **Batch No.:** 2
CAS Number: 1392487-51-2
IUPAC Name: (±)-(3a*R**,4*S**,9b*S**)-4-(6-Bromo-1,3-benzodioxol-5-yl)-3a,4,5,9b-tetrahydro-8-(1-methylethyl)-3*H*-cyclopenta[*c*]quinoline

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₂BrNO₂
Batch Molecular Weight: 412.33
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (Ethyl acetate:Petroleum ether [9:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.09	5.38	3.4
Found	64.23	5.33	3.44

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Antagonist of GPER; selectively inhibits estrogen-mediated activation of PI3-K by GPER, but not by ER α . Also inhibits estrogen-mediated calcium mobilization (IC₅₀ = 112 nM). Structural analog of G-1 (Cat. No. 3577).

Physical and Chemical Properties:

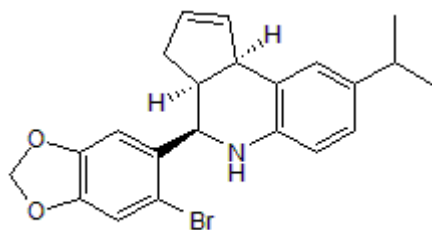
Batch Molecular Formula: C₂₂H₂₂BrNO₂

Batch Molecular Weight: 412.33

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



(and enantiomer)

References:

Dennis et al (2011) Identification of a GPER/GPR30 antagonist with improved estrogen receptor counterselectivity. *J.Steroid Biochem.Mol.Biol.* **127** 358. PMID: 21782022.

Prossnitz and Barton (2011) The G-protein-coupled estrogen receptor GPER in health and disease. *Nat.Rev.Endocrinol.* **7** 715. PMID: 21844907.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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