

**Product Name:** G-15

**Catalog No.:** 3678

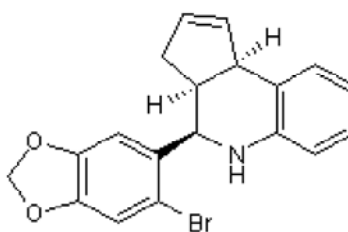
**Batch No.:** 2

CAS Number: 1161002-05-6

IUPAC Name: (3a*S*\*,4*R*\*,9b*R*\*)-4-(6-Bromo-1,3-benzodioxol-5-yl)-3a,4,5,9b-3*H*-cyclopenta[*c*]quinoline

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>16</sub>BrNO<sub>2</sub>  
**Batch Molecular Weight:** 370.24  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



(and enantiomer)

**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.55 (Ethyl acetate:Petroleum ether [9:1])  
**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.64	4.36	3.78
Found	61.57	4.58	3.7

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**Description:**

High affinity and selective GPER receptor antagonist ( $K_i = 20$  nM) that displays no affinity for ER $\alpha$  and ER $\beta$  at concentrations up to 10  $\mu$ M. Inhibits agonist-induced calcium mobilization in vitro ( $EC_{50}$  of ~185 nM) and antagonizes the antidepressive and renoprotective effects of estrogen in vivo.

**Physical and Chemical Properties:**

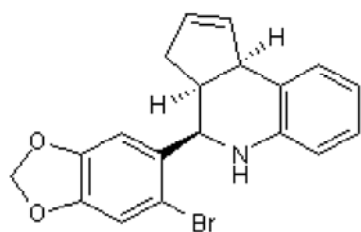
Batch Molecular Formula: C<sub>19</sub>H<sub>16</sub>BrNO<sub>2</sub>

Batch Molecular Weight: 370.24

Physical Appearance: White solid

**Minimum Purity:**  $\geq 99\%$

**Batch Molecular Structure:**



(and enantiomer)

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 50 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.

**References:**

**Yue et al** (2019) Activation of G-protein-coupled receptor 30 protects neurons against excitotoxicity through inhibiting excessive autophagy induced by glutamate. *ACS Chem.Neurosci.* **10** 4227. PMID: 31545891.

**Hutchens et al** (2012) Estrogen protects renal endothelial barrier function from ischemia-reperfusion in vitro and in vivo. *Am.J.Physiol.Renal Physiol.* **303** 377. PMID: 22622457.

**Dennis et al** (2009) *In vivo* effects of a GPR30 antagonist. *Nat.Chem.Biol.* **5** 421. PMID: 19430488.

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