# Data Sheet

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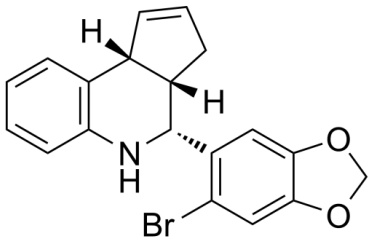
| **Product Name:** | G15 |
| **Cat. No.:** | CS-0027916 |
| **CAS No.:** | 1161002-05-6 |
| **Molecular Formula:** | $C_{19}H_{16}BrNO_2$ |
| **Molecular Weight:** | 370.24 |
| **Target:** | Estrogen Receptor/ERR |
| **Pathway:** | Others |
| **Solubility:** | DMSO : 41.67 mg/mL (112.55 mM; Need ultrasonic) |




## BIOLOGICAL ACTIVITY:

G15 is a high affinity and selective **G-protein-coupled estrogen receptor (GPER/GPR30)** antagonist with a **$K_i$** of 20 nM[1][2]. IC50 & Target: Ki: 20 nM (GPER/GPR30)[2] **In Vitro:** G15 (0.1-10 μM; 2 days) inhibits GPER-mediated proliferation stimulated by 17β-estradiol (E2) in A549 and H1793 cell lines[1].

G15 (1 μM; 48 hours) inhibits the response of GPER stimulated by E2 and G1 in A549 and H1793 cell lines[1]. **In Vivo:** G15 (1.46 mg/kg; i.h.; twice a week for 14 weeks) decreases the number of tumor nodules and tumor index increased by the E2 or G1 group in urethane-induced adenocarcinoma mice[1].

## References:

[1]. Liu C, et al. G-Protein-Coupled Estrogen Receptor Antagonist G15 Decreases Estrogen-Induced Development of Non-Small Cell Lung Cancer. Oncol Res. 2019 Feb 21;27(3):283-292

[2]. Girgert R, et al. Estrogen Signaling in ERα-Negative Breast Cancer: ERβ and GPER. Front Endocrinol (Lausanne). 2019 Jan 9;9:781.

## CAIndexNames:

3H-Cyclopenta[c]quinoline, 4-(6-bromo-1,3-benzodioxol-5-yl)-3a,4,5,9b-tetrahydro-, (3aS,4R,9bR)-

## SMILES:

BrC1=C([C@@H]2NC3=C(C=CC=C3)[C@@]4([H])[C@]2([H])CC=C4)C=C5OCOC5=C1



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