

G-15

Catalog Number :1160560

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: AC1LMJHT, CTK8E6722, ZINC00871833

Chemical Name: (3aR,4R,9bS)-4-(6-bromo-1,3-benzodioxol-5-yl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline

Molecular Formula: C₁₉H₁₆BrNO₂

Molecular Weight: 370.2

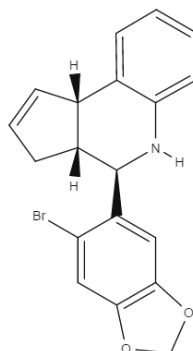
CAS Number: 1161002-05-6

Purity: ≥95%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

G-15 is a selective antagonist of GPR30 receptor, an estradiol binding receptor that contributes to both uterine and neurological responses. G-15 is reported to oppose the physiological effects of estrogen and inhibit calcium mobilization in vitro.

Preparation & Storage

Soluble in organic solvents such as ethanol or DMSO.

References

1. Dennis, M. K., Burai, R., Ramesh, C., Petrie, W. K., Alcon, S. N., Nayak, T. K., ... Prossnitz, E. R. (2009). In vivo effects of a GPR30 antagonist.; *Nature chemical biology*, 5(6), 421-427.
2. Ariazi, E. A., Brailoiu, E., Yerrum, S., Shupp, H. A., Slifker, M. J., Cunliffe, H. E., ... Jordan, V. C. (2010). The G protein;coupled receptor GPR30 inhibits proliferation of estrogen receptor;positive breast cancer cells.; *Cancer research*, 70(3), 1184-1194.
3. Hammond, R., Gibbs, R. B. (2011). GPR30 is positioned to mediate estrogen effects on basal forebrain cholinergic neurons and cognitive performance.; *Brain research*, 1379, 53-60.