G-15
Item No. 14673

CAS Registry No.: 1161002-05-6
Formal Name: (3aS,6R,9bR)-4-(6-bromo-1,3-benzodioxol-5-yl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline
MF: C19H16BrNO2
FW: 370.2
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λmax: 207, 243, 293 nm

Laboratory Procedures

For long term storage, we suggest that G-15 be stored as supplied at -20°C. It should be stable for at least two years.

G-15 is supplied as a crystalline solid. A stock solution may be made by dissolving the G-15 in the solvent of choice. G-15 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of G-15 in these solvents is approximately 1, 20, and 30 mg/ml, respectively.

G-15 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, G-15 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. G-15 has a solubility of approximately 0.5 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.

G protein-coupled estrogen receptor (GPER), or GPR30, specifically binds natural and man-made estrogens.1 It is thought to be involved in estrogen-sensitive cancers.1,2 GPER knockout mice are fertile, although they exhibit thymic atrophy, impaired glucose tolerance, and altered bone growth.1 G-15 is a cell-permeable non-steroidal antagonist of GPER (K_i = 20 nM).3 It displays low affinity cross-reactivity with the classical estrogen receptor (ER), ERs, so that at doses greater than 1 µM it is capable of mediating limited ER-dependent transcriptional activity.4 G-15 antagonizes the anti-depressive effects of estrogen in vivo.5

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14673

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your institution.

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