**G-1**

*Item No. 10008933*

**CAS Registry No.:** 881639-98-1  
**Formal Name:** rel-1-[4-(6-bromo-1,3-benzodioxol-5-yl)-3aR,4S,5,9bS-tetrahydro-3H-cyclopenta[c]quinolin-8-yl]-ethanone  
**MF:** C_{21}H_{18}BrNO_{3}  
**FW:** 412.3  
**Purity:** ≥98%  
**Stability:** ≥2 year at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ_{max} 210, 242, 329 nm

**Laboratory Procedures**

For long term storage, we suggest that G-1 be stored as supplied at -20°C. It should be stable for at least two years.

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

G-1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, G-1 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. G-1 has a solubility of approximately 0.15 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.

GPR30 is a transmembrane G protein-coupled receptor (GPCR) localized to endoplasmic reticulum (ER) that binds estradiol with high affinity, activating multiple intracellular signaling pathways.  


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