HU-308
Item No. 90086

CAS Registry No.: 256934-39-1
Formal Name: 4-[4-(1,1-dimethylheptyl)-2,6-dimethoxyphenyl]-6,6-dimethyl-bicyclo[3.1.1]hept-2-ene-2-methanol
MF: C_{27}H_{42}O_3
FW: 414.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in methyl acetate

Laboratory Procedures
For long term storage, we suggest that HU-308 be stored as supplied at -20°C. It should be stable for at least one year. HU-308 is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol and dimethyl formamide purged with an inert gas can be used. The solubility of HU-308 in these solvents is at least 30 mg/ml.

HU-308 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of HU-308 should be diluted with the aqueous buffer of choice. HU-308 has a solubility of 0.25 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The endocannabinoids (ethanolamides and 2-glycerl esters of unsaturated fatty acids, mainly arachidonate) are ligands for the central cannabinoid (CB_1) and peripheral cannabinoid (CB_2) G-protein coupled receptors. HU-308 is a potent, selective agonist for the peripheral CB_2 receptor. The K_i for CB_1 is >10 µM, while the K_i for CB_2 is approximately 20 nM. When administered to whole animals, HU-308 elicits hypotensive, analgesic, and anti-inflammatory activity, but none of the behavioral tetrad of psychomotor responses characteristic of the phenolic components of hemp, such as Δ^9-THC.

References

Related Products
(+)-CP 47,497-C8-homolog-d - Item No. 10686 • HU-210 - Item No. 90082 • Arachidonoyl Cyclopropylamide - Item No. 91053 • CAY10429 - Item No. 10004259 • R-1 Methanandamide Phosphate - Item No. 10004281