CB-86
Item No. 13289

CAS Registry No.: 1150586-64-3
Formal Name: N-cyclopropyl-8-[3-(1,1-dimethylheptyl)-5-hydroxyphenoxy]-octanamide
MF: C_{26}H_{43}NO_{3}
FW: 417.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 206, 275 nm

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CB-86 is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of CB-86 in these solvents is approximately 30 mg/ml.

CB-86 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of CB-86 should be diluted with the aqueous buffer of choice. CB-86 has a solubility of approximately 0.3 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.

Description

CB-86 is a resorcinol-anandamide hybrid compound that acts as a partial agonist for the central cannabinoid (CB_{1}) receptor and a neutral antagonist for the peripheral cannabinoid (CB_{2}) receptor with K_{i} values of 5.6 and 7.9 nM, respectively. Its demonstrated potency is similar to that of WIN 55,212-2 (K_{i} = 21 and 2.1 nM for CB_{1} and CB_{2}, respectively). CB-86 (1 mg/kg) exhibits antinociceptive effects in mice treated with formalin.

Reference