

Produktinformation



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PRODUCT INFORMATION



4-Quinolone-3-Carboxamide CB2 Ligand

Item No. 11093

CAS Registry No.: 1314230-69-7

Formal Name: 1,4-dihydro-8-methoxy-4-oxo-1-

pentyl-N-tricyclo[3.3.1.13,7]dec-

1-yl-3-quinolinecarboxamide

Synonym: 4Q3C CB₂ Ligand MF: $C_{26}H_{34}N_2O_3$ FW: 422.6

 λ_{max} : 230, 323 nm UV/Vis.: Supplied as: A crystalline solid

Storage: -20°C

Purity:

As supplied, 2 years from the QC date provided on the Certificate of Analysis, when Stability:

stored properly



4-Quinolone-3-carboxamide CB2 ligand (4Q3C CB2 ligand) is supplied as a crystalline solid. A stock solution may be made by dissolving the 4Q3C CB2 ligand in the solvent of choice. 4Q3C CB2 Ligand is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 4Q3C CB₂ ligand in ethanol is approximately 30 mg/ml and approximately 3 mg/ml in DMSO and DMF.

4Q3C CB2 Ligand is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 4Q3C CB2 ligand should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 4Q3C CB₂ Ligand has a solubility of approximately 0.2 mg/ml in a 1:4 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Cannabinoids (CBs) and their synthetic analogs produce biochemical and pharmacological effects by interacting with the central CB₁ and peripheral CB₂ receptors. The CB₂ receptor has emerged as a pharmacotherapeutic target for treating osteoporosis, as well as for eliciting antinociceptive effects in various models of pain. 4Q3C CB₂ Ligand is a selective, high-affinity ligand of the CB₂ receptor, displaying a K₁ value of 0.6 nM ($K_i > 10,000$ nM for CB_1) in vitro. At a dose of 6 mg/kg, 4Q3C CB_2 ligand exhibits antinociceptive activity in a formalin test of nocifensive response in mice. This analgesic affect is not significantly reversed by the CB2 antagonist AM630 (Item No. 10006974), which suggests 4Q3C CB2 ligand may behave as an inverse agonist.1

References

1. Pasquini, S., De Rosa, M., Pedani, V., et al. Investigations on the 4-quinolone-3-carboxylic acid motif. 4. Identification of new potent and selective ligands for the cannabinoid type 2 receptor with diverse substitution patterns and antihyperalgesic effects in mice. J. Med. Chem. 54, 5444-5453 (2011).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution

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