

Product Name: PM 226

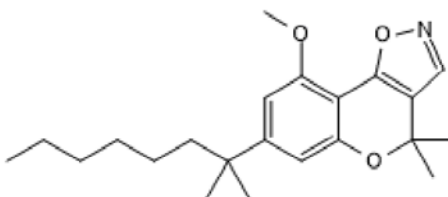
Catalog No.: 6220

Batch No.: 1

CAS Number: 1949726-13-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₁NO₃
Batch Molecular Weight: 357.49
Physical Appearance: Pale yellow oil
Solubility: Soluble in methyl acetate (supplied pre-dissolved -10mg/ml)
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.92	8.74	3.92
Found	73.83	8.77	3.97

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: PM 226

Catalog No.: 6220

Batch No.: 1

CAS Number: 1949726-13-9

Description:

Potent and selective CB₂ receptor agonist (K_i = 12.8 nM; EC₅₀ = 38.67 nM). Exhibits negligible affinity for the CB₁ receptor (K_i > 40,000 nM) and no activity at the GPR55. Suppresses neuroinflammation by reducing microglial activation in a multiple sclerosis mouse model. BBB permeable; anti-inflammatory and neuroprotective.

Physical and Chemical Properties:

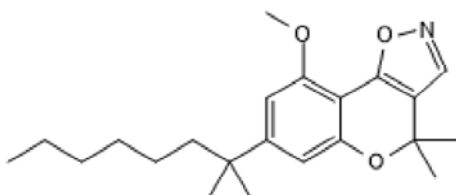
Batch Molecular Formula: C₂₂H₃₁NO₃

Batch Molecular Weight: 357.49

Physical Appearance: Pale yellow oil

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in methyl acetate (supplied pre-dissolved -10mg/ml)

This compound is supplied pre-dissolved in Methyl acetate (10mg/ml). To change the solvent, evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the chosen solvent (preferably purged with nitrogen beforehand). The solubility of PM 226 is greater than 100mM in both DMSO and Ethanol.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gómez-Cañas et al (2016) Biological characterization of PM226, a chromenoisoxazole, as a selective CB₂ receptor agonist with neuroprotective profile. *Pharmacol.Res.* **110** 205. PMID: 27013280.

Morales et al (2016) Chromenopyrazole, a versatile cannabinoid scaffold with *in vivo* activity in a model of multiple sclerosis. *J.Med.Chem.* **59** 6753. PMID: 27309150.

Navarro et al (2016) Targeting cannabinoid CB₂ receptors in the central nervous system. Medicinal chemistry approaches with focus on neurodegenerative disorders. *Front. Neurosci.* **10** 406. PMID: 27679556.

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