Pravadoline
Item No. 10006973

CAS Registry No.: 92623-83-1
Formal Name: (4-methoxyphenyl)[2-methyl]-1-[2-(4-morpholinyl)ethyl]-1H-indol-3-yl]-methanone
Synonym: WIN 48,098
MF: C_{23}H_{26}N_{2}O_{3}
FW: 378.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 219, 272, 322 nm

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

Pravadoline is supplied as a crystalline solid. A stock solution may be made by dissolving the pravadoline in the solvent of choice. Pravadoline is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of pravadoline in ethanol is approximately 0.15 mg/ml and approximately 5 mg/ml in DMSO and DMF.

Pravadoline is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, pravadoline should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Pravadoline has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMSO-PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Pravadoline is a nonacidic, aminoalkylindole analgesic agent that inhibits cyclooxygenase. Like NSAIDs, pravadoline inhibits prostaglandin synthesis (IC_{50} = 5 μM in mouse brain microsomes) and displays antinociceptive activity (ED_{50} = 26 mg/kg in an acetylcholine-induced writhing assay in mice). In contrast to NSAIDs, pravadoline inhibits neuronally stimulated contractions in mouse vas deferens preparations (IC_{50} = 0.45 μM), an effect similar to that which is produced by opioid analgesics, yet is not attenuated by the opioid receptor antagonist, naloxone. Pravadoline does not produce gastrointestinal irritation following acute or chronic administration to rodents.¹

Reference

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10006973

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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