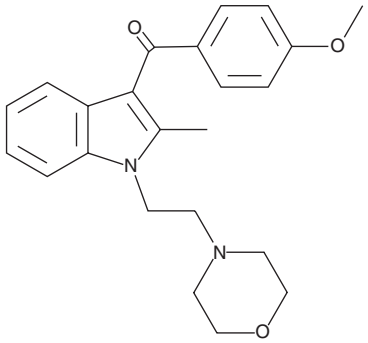
PRODUCT INFORMATION

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:	$C_{23}H_{26}N_2O_3$
FW:	378.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 219, 272, 322 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥5 years



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

Description

Pravadoline is a nonacidic, aminoalkylindole analgesic agent that inhibits cyclooxygenase.[1] 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).[1] 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.[1] Pravadoline does not produce gastrointestinal irritation following acute or chronic administration to rodents.[1]

Reference

1. D'Ambra, T.E., Estep, K.G., Bell, M.R., *et al.* Conformationally restrained analogues of pravadoline: Nanomolar potent, enantioselective, (aminoalkyl)indole agonists of the cannabinoid receptor. *J. Med. Chem.* **35(1)**, 124-135 (1992).

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