

Product Data Sheet

Product Name: (R)-AM1241

Cat. No.: GC40594

Chemical Properties

Cas. No. 444912-51-0

SMILES O=C(C1=CC([N+])([O-])=O)=CC=C1I)C2=CN(C[C@H]3CCCCN3C)C4=CC=CC=C42

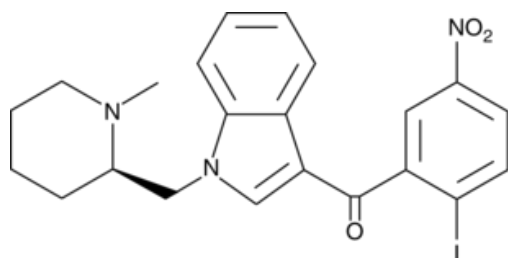
Formula C₂₂H₂₂N₃O₃ M.Wt 503.3

Solubility DMF: 25 mg/ml, DMF:PBS(pH7.2) (1:2): 0.3 mg/ml, DMSO: 10 mg/ml, Ethanol: 5 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

(R)-AM1241 binds to cannabinoid (CB) receptors and has greater than 100-fold selectivity for the CB₂ over the CB₁ receptor (K_{is} = 15 and 5,000 nM, respectively, in a membrane assay using human receptors). (R)-AM1241 acts as an agonist at human CB₂ receptors (EC_{50} = 118 nM) but an inverse agonist at rat and mouse CB₂ receptors (EC_{50} s = 315 and 341 nM, respectively). Similar to the racemate AM1241, (R)-AM1241 produces antinociception to thermal, but not mechanical, pain in rats. The pain-reducing effect of (R)-AM1241 is blocked by the CB₂-specific inhibitor SR 144528 but not by either the CB₁-selective inhibitor rimonabant or the opioid receptor blocker naloxone.

Caution: Product has not been fully validated for medical applications. For research use only.

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