Catalog # 10-2007
AM251
CAS# 183232-66-8
N-(Piperidin-1-yl)-5-(4-iodophenyl)-1-(2,4-dichlorophenyl)-4-methyl-1H-pyrazole-3-carboxamide
Lot # X101761

A potent cannabinoid CB₁ receptor antagonist with selectivity over CB₂ receptors (306-fold).¹-³ Displays anorectic effects and antidepressant-like effects in mice.⁴ Behaves as an agonist at GPR55, EC₅₀=39nM.⁵ Active in vivo.

1) Gatley et al. (1996), 123I-labeled AM251: a radiiodinated ligand which binds in vivo to mouse brain cannabinoid CB1 receptors; Eur. J. Pharmacol., 307 331
2) Gatley et al. (1997), Binding of the non-classical cannabinoid CP 55,940 and the diarylpyrazole AM251 to rodent brain cannabinoid receptors; Life Sci., 61 191
3) Pertwee et al. (2005), Inverse agonism and neutral antagonism at cannabinoid CB1 receptors; Life Sci., 76 1307
4) Shearman et al. (2003), Antidepressant-like and anorectic effects of the cannabinoid CB1 receptor inverse agonist AM251 in mice; behave. Pharmacol., 14 573
5) Ryberg et al. (2007), The orphan receptor GPR55 is a novel cannabinoid receptor; Br. J. Pharmacol., 152 1092

PHYSICAL DATA

Molecular Weight: 555.24
Molecular Formula: C₂₂H₂₁Cl₂I₂N₄O
Purity: 98% by TLC
NMR: (Conforms)
Solubility: DMSO (up to 50 mg/ml) or Ethanol (up to 13 mg/ml)
Physical Description: Off-white solid
Storage and Stability: Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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