

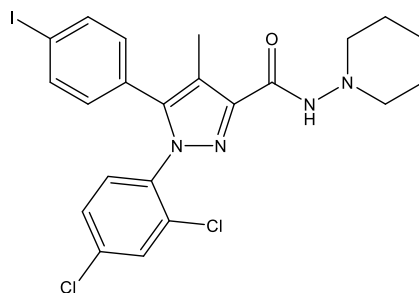
Catalog # 10-2007

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 radioiodinated 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:	C ₂₂ H ₂₁ Cl ₂ IN ₄ O
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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