

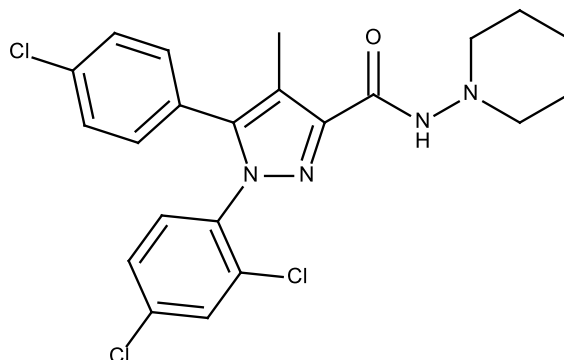
**Catalog # 10-1059**

**Rimonabant**

CAS# 168273-06-1

5-(4-Chlorophenyl)-1-(2,4-dichlorophenyl)-4-methyl-N-piperidin-1-yl-1H-pyrazole-3-carboxamide; Acomplia

Lot # FBM2168



Rimonabant is a selective CB1 receptor inverse agonist ( $K_i = 1.8 \text{ nM}$ ).<sup>1,2</sup> It is an anorectic antiobesity drug originally approved for use in Europe but eventually withdrawn from the market because of potential severe psychiatric side effects. Rimonabant was shown to be  $\mu$ -opioid antagonist suggesting a link to its psychiatric side effects.<sup>3</sup>

- 1) Rinaldi-Carmona *et al.* (1994) *SR141716A, a potent and selective antagonist of the brain cannabinoid receptor.* *FEBS.Lett.* **350** 240.
- 2) Rinaldi-Carmona *et al.* (1995) *Biochemical and pharmacological characterization of SR141716A, the first potent and selective cannabinoid receptor antagonist* *Life Sci.* **56** 1941
- 3) Seely *et al.* (2012), *AM-251 and rimonabant act as direct antagonists at mu-opioid receptors: implications for opioid/cannabinoid interaction studies;* *Neuropharmacol.* **63** 905

**PHYSICAL DATA**

Molecular Weight:	463.79
Molecular Formula:	C <sub>22</sub> H <sub>21</sub> Cl <sub>3</sub> N <sub>4</sub> O
Purity:	>98%
	NMR: Conforms
Solubility:	DMSO (up to 20 mg/mL); Ethanol (up to 20 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Protect from exposure to moisture. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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