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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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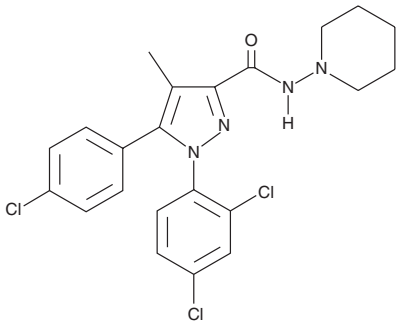
PRODUCT INFORMATION

Rimonabant

Item No. 9000484

CAS Registry No.: 168273-06-1
Formal Name: 5-(4-chlorophenyl)-1-(2,4-dichlorophenyl)-4-methyl-N-1-piperidinyl-1H-pyrazole-3-carboxamide
Synonym: SR141716
MF: $C_{22}H_{21}Cl_3N_4O$
FW: 463.8
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Rimonabant is supplied as a crystalline solid. A stock solution may be made by dissolving the rimonabant in the solvent of choice. Rimonabant is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of rimonabant in ethanol is approximately 30 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Rimonabant is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, rimonabant should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Rimonabant has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Rimonabant is a potent and selective cannabinoid (CB) receptor 1 antagonist (K_is = 5.6 and >1,000 nM for CB_1 and CB_2, respectively).[1] In rodent models, rimonabant induces lipolysis, reduces hepatomegaly, decreases body weight, and improves dyslipidemia by reducing triglyceride, free fatty acid, and total cholesterol levels and by increasing HDL/LDL ratios.[2] Rimonabant elicits antiproliferative and immunomodulatory effects (*e.g.*, cell cycle arrest, increased expression of IκB and phosphorylated Akt, and decreased expression of NF-κB, phosphorylated ERK1/2, COX-2, and iNOS) *in vitro*.[3]

References

1. Rinaldi-Carmona, M., Barth, F., Héaulme, M., *et al.* SR141716A, a potent and selective antagonist of the brain cannabinoid receptor. *FEBS Lett.* **350(2-3)**, 240-244 (1994).
2. Leite, C.E., Mocelin, C.A., Petersen, G.O., *et al.* Rimonabant: An antagonist drug of the endocannabinoid system for the treatment of obesity. *Pharmacologiacal Reports* **61(2)**, 217-224 (2009).
3. Malfitano, A.M., Laezza, C., Pisanti, S., *et al.* Rimonabant (SR141716) exerts anti-proliferative and immunomodulatory effects in human peripheral blood mononuclear cells. *Brit. J Pharmacol.* **153(5)**, 1003-1010 (2009).

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