

Produktinformation



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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



PRODUCT INFORMATION



Rimonabant

Item No. 9000484

CAS Registry No.: 168273-06-1

5-(4-chlorophenyl)-1-(2,4-dichlorophenyl)-4-methyl-Formal Name:

N-1-piperidinyl-1H-pyrazole-3-carboxamide

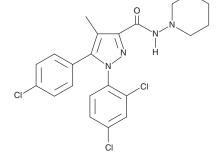
Synonym: SR141716 MF: C₂₂H₂₁Cl₃N₄O

463.8 FW: **Purity:** ≥98%

Supplied as: A crystalline solid

Storage: -20°C Stability: ≥4 vears

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 cannabinoid 1 (CB₁) receptor antagonist (K_i = 5.6 nM).¹ It is selective for CB₁ over CB₂ receptors (K_i = >1,000 nM), as well as a panel of 37 other receptors and channels (IC₅₀s = >1,000 nM). Rimonabant (10 µM) inhibits phytohemagglutinin-induced proliferation of isolated human peripheral blood mononuclear cells (PBMCs).1 Intraperitoneal administration of rimonabant prevents decreases in body temperature and increases in tail-flick latency induced by the CB₁ and CB₂ receptor agonist (+)-WIN 55,212-2 (Item No. 10009023) in mice (ED₅₀s = 0.28 and 1.62 mg/kg, respectively) and oral administration reduces body weight in a mouse model of diet-induced obesity when administered at a dose of 10 mg/kg in the drinking water.^{2,3} Rimonabant (10 mg/kg) decreases the percentage of time spent in the open arms of the elevated plus maze in mice, indicating anxiety-like activity. Formulations containing rimonabant have previously been used in the treatment of obesity.

References

- 1. 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).
- 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).
- Lee, S.H., Seo, H.J., Lee, S.H., et al. Biarylpyrazolyl oxadiazole as potent, selective, orally bioavailable cannabinoid-1 receptor antagonists for the treatment of obesity. J. med. Chem. 51, 7216-7233 (2008).
- Bellocchio, L., Soria-Gómez, E., Quarta, C., et al. Activation of the sympathetic nervous system mediates hypophagic and anxiety-like effects of CB₁ receptor blockade. Proc. Natl. Acad. Sci. USA 110(12), 4786-4791 (2013).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM