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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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

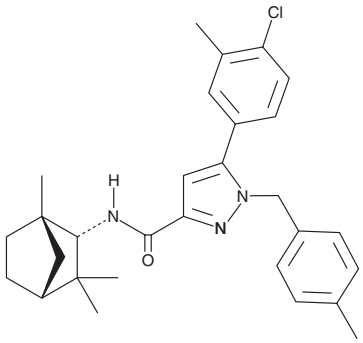
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

SR 144528

Item No. 9000491

CAS Registry No.:	192703-06-3
Formal Name:	5-(4-chloro-3-methylphenyl)-1-[(4-methylphenyl) methyl]-N-[(1S,2S,4R)-1,3,3-trimethylbicyclo[2.2.1]hept-2-yl]-1H-pyrazole-3-carboxamide
MF:	$C_{29}H_{34}ClN_3O$
FW:	476.1
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

SR 144528 is supplied as a crystalline solid. A stock solution may be made by dissolving the SR 144528 in the solvent of choice. SR 144528 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of SR 144528 in DMSO is approximately 20 mg/ml and approximately 30 mg/ml in ethanol and DMF.

SR 144528 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SR 144528 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. SR 144528 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

SR 144528 is a cannabinoid 2 (CB_2) receptor antagonist (K_i = 0.6 nM).[1] It is selective for CB_2 over CB_1 receptors in CHO cells expressing the human receptors (K_i = 437 nM).[2] SR 144528 reverses CP 55,940-induced inhibition of forskolin-induced adenylyl cyclase activity in CHO cells expressing human CB_2 receptors (EC_{50} = 10 nM). SR 144528 (0.01 mg/kg) reduces paw swelling in a mouse model of carrageenan-induced paw edema.[3]

References

1. Pertwee, R.G. Pharmacology of cannabinoid receptor ligands. *Curr. Med. Chem.* **6(8),** 635-664 (1999).
2. Rinaldi-Carmona, M., Barth, F., Millan, J., *et al.* SR 144528, the first potent and selective antagonist of the CB2 cannabinoid receptor. *J. Pharmacol. Exp. Ther.* **284(2),** 644-650 (1998).
3. Iwamura, H., Suzuki, H., Ueda, Y., *et al. In vitro* and *in vivo* pharmacological characterization of JTE-907, a novel selection ligand for cannabinoid CB_2 receptor. *J. Pharmacol. Exp. Ther.* **296(2),** 420-425 (2001).

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