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-[1(1S,2S,4R)-1,3,3-trimethylbicycle[2.2.1]hept-2-yl]-1H-pyrazole-3-carboxamide
MF: C24H22ClN2O
FW: 475.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

SR 144528 is a selective peripheral cannabinoid (CB2) receptor inverse agonist that displays a Ki value of 0.6 nM for rat spleen and human recombinant CB2 receptors and a Ki value of 400 nM for rat brain and human recombinant CB1 receptors. SR 144528 antagonizes the inhibitory effects of CP 55,940 on forskolin-induced adenylyl cyclase activity in CHO cells expressing hCB2 (IC50 = 10 nM) but not in cells expressing hCB1 (IC50 >10 µM). SR 144528 has been used to investigate the contribution of the CB2 receptor in the control of pain initiation as well as suppression of inflammation and immune activation.3-6

SR 144528, an antagonist for the peripheral cannabinoid receptor, behaves as an inverse agonist. J. Pharmacol. Exp. Ther. 284(2), 644-650 (1998). 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.

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Laboratory Procedures
For long term storage, we suggest that SR 144528 be stored as supplied at -20°C. It should be stable for at least two years. 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.

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References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/9000491

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. 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 Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extend beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.