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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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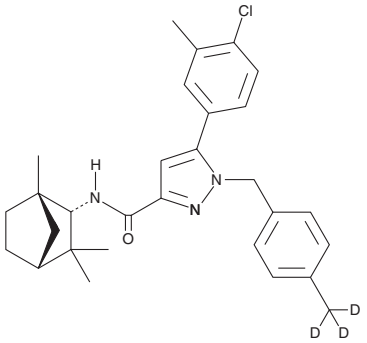
PRODUCT INFORMATION

SR 144528-d_3

Item No. 37830

Formal Name:	5-(4-chloro-3-methylphenyl)-1-(4-(methyl-d_3) benzyl)-N-((1S,2S,4R)-1,3,3-trimethylbicyclo[2.2.1] heptan-2-yl)-1H-pyrazole-3-carboxamide
MF:	$C_{29}H_{31}D_3ClN_3O$
FW:	479.1
Chemical Purity:	≥98% (SR 144528)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_3); ≤1% d_0
UV/Vis.:	λ_{max}: 201, 204 nm
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

SR 144528-d_3 is intended for use as an internal standard for the quantification of SR 144528 (Item No. 9000491) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

SR 144528-d_3 is supplied as a crystalline solid. A stock solution may be made by dissolving the SR 144528-d_3 in the solvent of choice, which should be purged with an inert gas. SR 144528-d_3 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of SR 144528-d_3 in these solvents is approximately 15, 5, and 25 mg/ml, respectively.

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 CB_2 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).

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