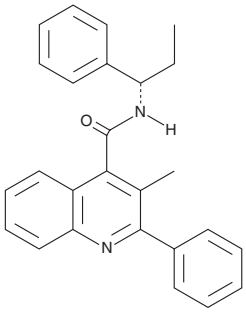
PRODUCT INFORMATION

SB 222200

Item No. 29422

CAS Registry No.:	174635-69-9
Formal Name:	3-methyl-2-phenyl-N-[(1S)-1-phenylpropyl]-4-quinolinecarboxamide
MF:	$C_{26}H_{24}N_2O$
FW:	380.5
Purity:	≥95%
UV/Vis.:	λ_{max}: 232 nm
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

SB 222200 is supplied as a crystalline solid. A stock solution may be made by dissolving the SB 222200 in the solvent of choice, which should be purged with an inert gas. SB 222200 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of SB 222200 in ethanol is approximately 15 mg/ml and approximately 10 mg/ml in DMSO and DMF.

SB 222200 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SB 222200 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. SB 222200 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

SB 222200 is a neurokinin-3 (NK_3) receptor antagonist (IC_{50} = 18.4 nM).[1] It is selective for NK_3 over NK_1 and NK_2 receptors (IC_{50}s = 250 and >100,000 nM, respectively). SB 222200 decreases calcium mobilization induced by neurokinin B (Item No. 24542) with an IC_{50} value of 265 nM in HEK293 cells expressing the recombinant human receptor. It inhibits contractions induced by senktide (Item No. 16721) in isolated rabbit iris sphincter muscle when used at a concentration of 300 nM. SB 222200 (500 pmol, i.c.v.) decreases mean arterial pressure in spontaneously hypertensive, but not normotensive, rats.[2] It prevents senktide-induced head shakes and tail whips in mice (ED_{50} = 5.6 mg/kg).[1]

References

1. Sarau, H.M., Griswold, D.E., Bush, B., *et al.* Nonpeptide tachykinin receptor antagonists. II. Pharmacological and pharmacokinetic profile of SB-222200, a central nervous system penetrant, potent and selective NK-3 receptor antagonist. *J. Pharmacol. Exp. Ther.* **295(1)**, 373-381 (2000).
2. Lessard, A., Laurin, M., Yamaguchi, N., *et al.* Central anti-hypertensive effect of tachykinin NK_3 receptor antagonists in rat. *Eur. J. Pharmacol.* **486(1)**, 75-83 (2004).

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