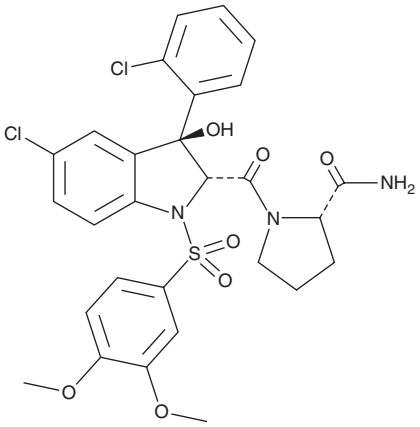
PRODUCT INFORMATION

SR 49059

Item No. 17972



CAS Registry No.:	150375-75-0
Formal Name:	1-[[(2R,3S)-5-chloro-3-(2-chlorophenyl)-1-[(3,4-dimethoxyphenyl)sulfonyl]-2,3-dihydro-3-hydroxy-1H-indol-2-yl]carbonyl]-2-pyrrolidinecarboxamide
Synonym:	Relcovaptan
MF:	$C_{28}H_{27}Cl_2N_3O_7S$
FW:	620.5
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 49059 is supplied as a crystalline solid. A stock solution may be made by dissolving the SR 49059 in the solvent of choice, which should be purged with an inert gas. SR 49059 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of SR 49059 in these solvents is approximately 5 mg/ml.

Description

SR 49059 is a selective, nonpeptide antagonist of the V_{1a} subtype of the vasopressin receptor (K_i = 1.1-6.3 nM in human).[1,2] It demonstrates ≥2 orders of magnitude lower affinity for V_{1b}, V_2, and oxytocin receptors and does not exhibit any intrinsic agonist activity.[1] SR 49059 can inhibit arginine vasopressin-induced human platelet aggregation with an IC_{50} value of 3.7 nM.[1]

References

1. Serradiel-Le Gal, C., Wagnon, J., Garcia, C., *et al*. Biochemical and pharmacological properties of SR 49059, a new, potent, nonpeptide antagonist of rat and human vasopressin V_{1a} receptors. *J. Clin. Invest*. **92(1)**, 224-231 (1993).
2. Thibonnier, M., Conarty, D.M., Preston, J.A., *et al*. Molecular pharmacology of human vasopressin receptors. *Vasopressin and Oxytocin*. Zingg, H.H., Bichet, D.G., and Bourque, C.W., editors, *Plenum Press* (1998).

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