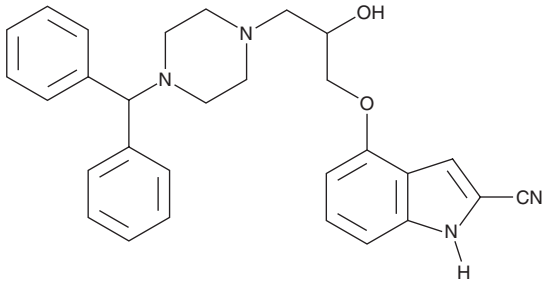
PRODUCT INFORMATION

(±)-SDZ-201 106

Item No. 21356

CAS Registry No.:	97730-95-5
Formal Name:	4-[3-[4-(diphenylmethyl)-1-piperazinyl]-2-hydroxypropoxy]-1H-indole-2-carbonitrile
Synonym:	DPI 201-106
MF:	$C_{29}H_{30}N_4O_2$
FW:	466.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 229, 283 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

(±)-SDZ-201 106 is supplied as a crystalline solid. A stock solution may be made by dissolving the (±)-SDZ-201 106 in the solvent of choice, which should be purged with an inert gas. (±)-SDZ-201 106 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of (±)-SDZ-201 106 in ethanol is approximately 1.6 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Description

(±)-SDZ-201 106 is a diphenylpiperazinylindole derivative that prolongs the open state of cardiac voltage-gated Na^+ channels. It has been shown to increase net Na^+ influx and the activity of reverse mode Na^+/Ca^{2+} exchange, which leads to an increase in intracellular Ca^{2+}, as well as to partially inhibit the Na^+ pump in cardiac myocytes.[1] (±)-SDZ-201 106 is also reported to act as an open-channel blocker of delayed-rectifier K^+ channels in NG108-15 neuronal cells.[2]

References

1. Kaumann, A.H., Richards, D.E., and Russell, D.A. Inhibition of the sodium pump by cardioactive DPI 201-106. *Br. J. Pharmacol.* **91(1)**, 3-5 (1987).
2. Wang, Y.-J., Lin, M.-W., Lin, A.-A., *et al.* Evidence for state-dependent block of DPI 201-106, a synthetic inhibitor of Na^+ channel inactivation, on delayed-rectifier K^+ current in pituitary tumor (GH3) cells. *J. Physiol. Pharmacol.* **59(3)**, 409-423 (2008).

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