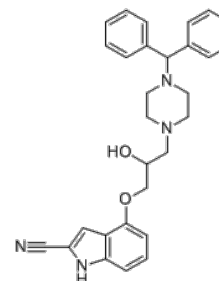


Product Name : DPI 201-106
Cat. No. : PC-38569
CAS No. : 97730-95-5
Molecular Formula : C₂₉H₃₀N₄O₂
Molecular Weight : 466.58
Target : Sodium Channel
Solubility : 10 mM in DMSO



Biological Activity

DPI 201-106 (SDZ 201106) is a positive inotropic agent that prolongs the open state of cardiac voltage-gated Na⁺ channels.

DPI 201-106 produced concentration-dependent positive inotropic effects in guinea-pig and rat left atria, kitten, rabbit and guinea-pig papillary muscles and Langendorff perfused hearts of rabbits between 0.1-3 μM.

DPI 201-106 increased the Ca²⁺-sensitivity of skinned fibres from porcine trabecula septomarginalis with EC₅₀ of 0.2 nM.

DPI (1-100 μM) suppressed the amplitude of delayed-rectifier K⁺ current (I(K_{DR})) in a concentration-dependent manner with IC₅₀ of 6.4 μM.

DPI-201106 also selectively reverses ABCB1-mediated multidrug resistance in cancer cell lines.

References

Scholtysik G, et al. Naunyn Schmiedebergs Arch Pharmacol. 1985 May;329(3):316-25.

Buggisch D, et al. Eur J Pharmacol. 1985 Dec 3;118(3):303-11.

Scholtysik G, et al. Eur J Pharmacol. 1986 Jun 5;125(1):111-8.

Hsiao SH, et al. Cancer Lett. 2018 Oct 10;434:81-90.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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