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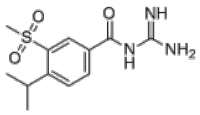
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Cariporide
Cat. No.	:	PC-35052
CAS No.	:	159138-80-4
Molecular Formula	:	$C_{12}H_{17}N_3O_3S$
Molecular Weight	:	283.346
Target	:	Sodium Channel
Solubility	:	10 mM in DMSO



Biological Activity

Cariporide (HOE642) is a potent, selective sodium-hydrogen exchange subtype 1 (**NHE1**) inhibitor with IC50 of 50 nM, shows little to no activity against NHE3 and NHE2 (IC50=3 and 10 uM).
Cariporide (HOE642) inhibits the amiloride sensitive sodium influx in rabbit erythrocytes, reduces the swelling of human platelets induced by intracellular acidification, and delays pH recovery in rat cardiomyocytes.
Cariporide (HOE642) reduces and prevents ventricular premature beats, ventricular tachycardia, and ventricular fibrillation after oral treatment in vivo.
Cariporide (HOE642) shows cardioprotective and antiarrhythmic effects in ischaemic and reperfused hearts.

References

Scholz W, et al. ***Cardiovasc Res.*** 1995 Feb;29(2):260-8.

Russ U, et al. ***Pflugers Arch.*** 1996 Nov-Dec;433(1-2):26-34.

Xue YX, et al. ***Eur J Pharmacol.*** 1996 Dec 19;317(2-3):309-16.

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